

								15.132		
ATOM	56	C	ARG	A	6	18.570	0.859	-14.532	1.00	43.76
ATOM	57	O	ARG	A	6	18.222	1.569	-15.490	1.00	43.44
ATOM	58	N	ARG	A	7	17.854	-0.164	-14.079	1.00	43.34
ATOM	60	CA	ARG	A	7	16.899	-0.917	-14.899	1.00	42.46
ATOM	61	CB	ARG	A	7	16.641	-2.243	-14.194	1.00	43.40
ATOM	62	CG	ARG	A	7	17.924	-2.971	-13.819	1.00	43.50
ATOM	63	CD	ARG	A	7	17.598	-4.239	-13.038	1.00	43.72
ATOM	64	NE	ARG	A	7	18.816	-4.938	-12.600	1.00	43.80
ATOM	65	CZ	ARG	A	7	19.090	-5.179	-11.316	1.00	43.65
ATOM	66	NH1	ARG	A	7	18.302	-4.680	-10.360	1.00	43.77
ATOM	67	NH2	ARG	A	7	20.196	-5.849	-10.985	1.00	43.45
ATOM	68	C	ARG	A	7	15.539	-0.239	-15.071	1.00	41.88
ATOM	69	O	ARG	A	7	14.728	-0.728	-15.865	1.00	42.14
ATOM	70	N	ARG	A	8	15.292	0.874	-14.395	1.00	41.14
ATOM	72	CA	ARG	A	8	13.995	1.533	-14.557	1.00	40.60
ATOM	73	CB	ARG	A	8	13.541	2.104	-13.214	1.00	40.61
ATOM	74	CG	ARG	A	8	14.151	3.454	-12.848	1.00	40.15
ATOM	75	CD	ARG	A	8	13.879	3.761	-11.379	1.00	39.95
ATOM	76	NE	ARG	A	8	13.957	5.197	-11.056	1.00	40.56
ATOM	77	CZ	ARG	A	8	15.044	5.843	-10.627	1.00	41.08
ATOM	78	NH1	ARG	A	8	14.906	6.999	-9.975	1.00	41.39
ATOM	79	NH2	ARG	A	8	16.212	5.210	-10.572	1.00	41.34
ATOM	80	C	ARG	A	8	14.071	2.601	-15.647	1.00	39.99
ATOM	81	O	ARG	A	8	13.045	3.140	-16.077	1.00	39.81
ATOM	82	N	GLY	A	9	15.272	2.814	-16.163	1.00	39.73
ATOM	84	CA	GLY	A	9	15.471	3.775	-17.243	1.00	39.19
ATOM	85	C	GLY	A	9	16.382	4.900	-16.789	1.00	38.79
ATOM	86	O	GLY	A	9	16.113	6.082	-17.041	1.00	38.36
ATOM	87	N	THR	A	10	17.431	4.530	-16.078	1.00	39.03
ATOM	89	CA	THR	A	10	18.377	5.532	-	1.00	38.73

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								15.590		
ATOM	90	CB	THR	A	10	18.584	5.253	- 14.107	1.00	39.28
ATOM	91	OG1	THR	A	10	17.312	5.377	- 13.488	1.00	39.82
ATOM	92	CG2	THR	A	10	19.536	6.238	- 13.440	1.00	39.49
ATOM	93	C	THR	A	10	19.699	5.477	- 16.353	1.00	38.15
ATOM	94	O	THR	A	10	20.441	6.463	- 16.406	1.00	38.33
ATOM	95	N	CYS	A	11	19.936	4.357	- 17.016	1.00	37.53
ATOM	97	CA	CYS	A	11	21.187	4.185	- 17.763	1.00	36.98
ATOM	98	CB	CYS	A	11	21.704	2.781	- 17.468	1.00	37.21
ATOM	99	SG	CYS	A	11	23.381	2.392	- 18.024	1.00	37.18
ATOM	100	C	CYS	A	11	21.015	4.373	- 19.274	1.00	36.77
ATOM	101	O	CYS	A	11	21.989	4.257	- 20.025	1.00	36.52
ATOM	102	N	LYS	A	12	19.804	4.660	- 19.722	1.00	37.20
ATOM	104	CA	LYS	A	12	19.569	4.726	- 21.169	1.00	37.21
ATOM	105	CB	LYS	A	12	18.372	3.848	- 21.522	1.00	37.42
ATOM	106	CG	LYS	A	12	17.097	4.333	- 20.845	1.00	37.48
ATOM	107	CD	LYS	A	12	15.883	3.547	- 21.326	1.00	38.13
ATOM	108	CE	LYS	A	12	14.599	4.079	- 20.702	1.00	38.28
ATOM	109	NZ	LYS	A	12	13.424	3.339	- 21.186	1.00	38.36
ATOM	110	C	LYS	A	12	19.323	6.148	- 21.670	1.00	36.94
ATOM	111	O	LYS	A	12	18.893	7.025	- 20.918	1.00	36.54
ATOM	112	N	ASP	A	13	19.566	6.316	- 22.963	1.00	37.27
ATOM	114	CA	ASP	A	13	19.263	7.542	- 23.737	1.00	37.15
ATOM	115	CB	ASP	A	13	17.796	7.492	- 24.158	1.00	37.99
ATOM	116	CG	ASP	A	13	17.537	6.285	- 25.053	1.00	38.69
ATOM	117	OD1	ASP	A	13	17.088	5.272	- 24.533	1.00	39.33
ATOM	118	OD2	ASP	A	13	17.786	6.402	- 26.245	1.00	38.66
ATOM	119	C	ASP	A	13	19.536	8.871	- 23.028	1.00	36.89
ATOM	120	O	ASP	A	13	20.506	8.992	- 22.272	1.00	37.25
ATOM	121	N	ILE	A	14	18.749	9.863	- 23.436	1.00	36.29

ATOM	123	CA	ILE	A	14	18.784	11.283	23.004	1.00	36.08
ATOM	124	CB	ILE	A	14	17.594	11.554	- 22.087	1.00	36.68
ATOM	125	CG2	ILE	A	14	17.672	12.935	- 21.442	1.00	36.42
ATOM	126	CG1	ILE	A	14	16.300	11.424	- 22.883	1.00	37.41
ATOM	127	CD1	ILE	A	14	15.092	11.878	- 22.071	1.00	38.01
ATOM	128	C	ILE	A	14	20.089	11.781	- 22.384	1.00	35.41
ATOM	129	O	ILE	A	14	20.477	11.412	- 21.270	1.00	35.11
ATOM	130	N	PHE	A	15	20.678	12.723	- 23.108	1.00	35.24
ATOM	132	CA	PHE	A	15	21.982	13.323	- 22.792	1.00	34.77
ATOM	133	CB	PHE	A	15	22.080	14.603	- 23.618	1.00	35.12
ATOM	134	CG	PHE	A	15	23.432	15.309	- 23.595	1.00	35.04
ATOM	135	CD1	PHE	A	15	24.604	14.583	- 23.764	1.00	35.07
ATOM	136	CE1	PHE	A	15	25.832	15.232	- 23.748	1.00	35.04
ATOM	137	CZ	PHE	A	15	25.887	16.608	- 23.570	1.00	35.02
ATOM	138	CE2	PHE	A	15	24.715	17.336	- 23.410	1.00	34.98
ATOM	139	CD2	PHE	A	15	23.488	16.686	- 23.426	1.00	34.98
ATOM	140	C	PHE	A	15	22.145	13.648	- 21.308	1.00	34.03
ATOM	141	O	PHE	A	15	21.313	14.340	- 20.704	1.00	33.59
ATOM	142	N	CYS	A	16	23.133	12.977	- 20.730	1.00	33.95
ATOM	144	CA	CYS	A	16	23.581	13.118	- 19.330	1.00	33.34
ATOM	145	CB	CYS	A	16	23.688	14.595	- 18.951	1.00	33.26
ATOM	146	SG	CYS	A	16	24.914	15.560	- 19.865	1.00	33.25
ATOM	147	C	CYS	A	16	22.733	12.386	- 18.278	1.00	32.74
ATOM	148	O	CYS	A	16	23.314	11.677	- 17.447	1.00	32.44
ATOM	149	N	SER	A	17	21.415	12.532	- 18.300	1.00	32.60
ATOM	151	CA	SER	A	17	20.591	11.978	- 17.211	1.00	32.03
ATOM	152	CB	SER	A	17	20.891	12.787	- 15.950	1.00	32.30
ATOM	153	OG	SER	A	17	21.022	14.156	- 16.322	1.00	32.53
ATOM	154	C	SER	A	17	19.084	11.984	- 17.487	1.00	32.04
ATOM	155	O	SER	A	17	18.593	11.378	-	1.00	32.34

ATOM	156	N	LYS	A	18	18.369	12.606	18.447 - 16.558	1.00	33.24
ATOM	158	CA	LYS	A	18	16.905	12.756	- 16.602	1.00	32.73
ATOM	159	CB	LYS	A	18	16.501	13.572	- 17.824	1.00	33.18
ATOM	160	CG	LYS	A	18	17.080	14.978	- 17.749	1.00	33.24
ATOM	161	CD	LYS	A	18	16.657	15.820	- 18.945	1.00	33.87
ATOM	162	CE	LYS	A	18	17.230	17.230	- 18.853	1.00	34.03
ATOM	163	NZ	LYS	A	18	16.800	18.049	- 19.998	1.00	34.59
ATOM	164	C	LYS	A	18	16.170	11.422	- 16.584	1.00	32.46
ATOM	165	O	LYS	A	18	16.295	10.659	- 15.619	1.00	32.34
ATOM	166	N	MET	A	19	15.468	11.137	- 17.670	1.00	32.43
ATOM	168	CA	MET	A	19	14.544	9.991	- 17.789	1.00	32.25
ATOM	169	CB	MET	A	19	15.269	8.820	- 18.433	1.00	33.06
ATOM	170	CG	MET	A	19	15.850	9.218	- 19.778	1.00	33.76
ATOM	171	SD	MET	A	19	15.922	7.897	- 21.003	1.00	34.22
ATOM	172	CE	MET	A	19	14.148	7.643	- 21.234	1.00	34.73
ATOM	173	C	MET	A	19	13.934	9.527	- 16.469	1.00	32.00
ATOM	174	O	MET	A	19	13.467	10.345	- 15.661	1.00	32.06
ATOM	175	N	ALA	A	20	14.101	8.249	- 16.170	1.00	31.80
ATOM	177	CA	ALA	A	20	13.431	7.674	- 14.999	1.00	31.62
ATOM	178	CB	ALA	A	20	13.386	6.164	- 15.140	1.00	31.45
ATOM	179	C	ALA	A	20	14.059	8.048	- 13.658	1.00	30.71
ATOM	180	O	ALA	A	20	13.333	8.045	- 12.657	1.00	30.35
ATOM	181	N	SER	A	21	15.235	8.662	- 13.683	1.00	30.45
ATOM	183	CA	SER	A	21	15.855	9.132	- 12.442	1.00	29.65
ATOM	184	CB	SER	A	21	17.371	9.206	- 12.577	1.00	29.99
ATOM	185	OG	SER	A	21	17.709	10.386	- 13.291	1.00	29.93
ATOM	186	C	SER	A	21	15.307	10.501	- 12.037	1.00	29.12
ATOM	187	O	SER	A	21	15.765	11.067	- 11.043	1.00	28.77
ATOM	188	N	TYR	A	22	14.426	11.070	- 12.845	1.00	29.15

ATOM	190	CA	TYR	A	22	13.652	12.235	12.410	1.00	28.75
ATOM	191	CB	TYR	A	22	13.788	13.365	-13.429	1.00	28.70
ATOM	192	CG	TYR	A	22	15.018	14.267	-13.299	1.00	28.83
ATOM	193	CD1	TYR	A	22	16.292	13.734	-13.147	1.00	29.48
ATOM	194	CE1	TYR	A	22	17.391	14.574	-13.034	1.00	29.69
ATOM	195	CZ	TYR	A	22	17.213	15.950	-13.077	1.00	29.26
ATOM	196	OH	TYR	A	22	18.302	16.786	-12.968	1.00	29.57
ATOM	197	CE2	TYR	A	22	15.943	16.489	-13.231	1.00	28.61
ATOM	198	CD2	TYR	A	22	14.845	15.645	-13.344	1.00	28.39
ATOM	199	C	TYR	A	22	12.181	11.853	-12.280	1.00	28.19
ATOM	200	O	TYR	A	22	11.509	12.233	-11.307	1.00	27.76
ATOM	201	N	LEU	A	23	11.777	10.910	-13.120	1.00	28.27
ATOM	203	CA	LEU	A	23	10.363	10.512	-13.228	1.00	27.85
ATOM	204	CB	LEU	A	23	10.153	9.796	-14.558	1.00	28.59
ATOM	205	CG	LEU	A	23	10.320	10.731	-15.750	1.00	28.61
ATOM	206	CD1	LEU	A	23	10.253	9.952	-17.061	1.00	29.14
ATOM	207	CD2	LEU	A	23	9.276	11.843	-15.732	1.00	28.27
ATOM	208	C	LEU	A	23	9.855	9.602	-12.111	1.00	27.38
ATOM	209	O	LEU	A	23	8.636	9.458	-11.966	1.00	26.72
ATOM	210	N	TYR	A	24	10.740	9.103	-11.263	1.00	27.81
ATOM	212	CA	TYR	A	24	10.310	8.300	-10.111	1.00	27.64
ATOM	213	CB	TYR	A	24	11.392	7.268	-9.828	1.00	28.21
ATOM	214	CG	TYR	A	24	10.974	6.095	-8.948	1.00	28.08
ATOM	215	CD1	TYR	A	24	11.905	5.494	-8.113	1.00	28.38
ATOM	216	CE1	TYR	A	24	11.531	4.421	-7.316	1.00	28.36
ATOM	217	CZ	TYR	A	24	10.227	3.951	-7.356	1.00	28.03
ATOM	218	OH	TYR	A	24	9.845	2.938	-6.504	1.00	28.10
ATOM	219	CE2	TYR	A	24	9.296	4.543	-8.197	1.00	27.70
ATOM	220	CD2	TYR	A	24	9.672	5.614	-8.996	1.00	27.73
ATOM	221	C	TYR	A	24	10.041	9.162	-8.865	1.00	27.22
ATOM	222	O	TYR	A	24	9.989	8.641	-7.745	1.00	27.04
ATOM	223	N	GLY	A	25	9.915	10.467	-9.049	1.00	27.18
ATOM	225	CA	GLY	A	25	9.673	11.366	-7.922	1.00	26.90
ATOM	226	C	GLY	A	25	11.001	11.758	-7.294	1.00	26.20
ATOM	227	O	GLY	A	25	11.223	11.567	-6.092	1.00	25.81
ATOM	228	N	VAL	A	26	11.902	12.243	-8.129	1.00	26.15
ATOM	230	CA	VAL	A	26	13.225	12.643	-7.641	1.00	25.61

ATOM	231	CB	VAL	A	26	14.291	11.883	-8.423	1.00	26.41
ATOM	232	CG1	VAL	A	26	15.697	12.336	-8.049	1.00	26.69
ATOM	233	CG2	VAL	A	26	14.147	10.379	-8.231	1.00	26.42
ATOM	234	C	VAL	A	26	13.416	14.148	-7.797	1.00	25.10
ATOM	235	O	VAL	A	26	13.750	14.631	-8.886	1.00	24.61
ATOM	236	N	LEU	A	27	13.141	14.875	-6.724	1.00	25.30
ATOM	238	CA	LEU	A	27	13.296	16.339	-6.721	1.00	24.97
ATOM	239	CB	LEU	A	27	12.039	17.034	-7.237	1.00	25.66
ATOM	240	CG	LEU	A	27	11.990	17.123	-8.758	1.00	26.01
ATOM	241	CD1	LEU	A	27	10.728	17.838	-9.219	1.00	26.79
ATOM	242	CD2	LEU	A	27	13.229	17.824	-9.307	1.00	25.84
ATOM	243	C	LEU	A	27	13.601	16.894	-5.334	1.00	24.45
ATOM	244	O	LEU	A	27	13.017	16.487	-4.323	1.00	24.15
ATOM	245	N	PHE	A	28	14.463	17.895	-5.323	1.00	24.45
ATOM	247	CA	PHE	A	28	14.796	18.618	-4.091	1.00	24.08
ATOM	248	CB	PHE	A	28	16.252	19.078	-4.203	1.00	24.22
ATOM	249	CG	PHE	A	28	16.754	20.007	-3.096	1.00	24.07
ATOM	250	CD1	PHE	A	28	16.812	19.571	-1.779	1.00	24.31
ATOM	251	CE1	PHE	A	28	17.271	20.426	-0.786	1.00	24.27
ATOM	252	CZ	PHE	A	28	17.677	21.714	-1.110	1.00	24.01
ATOM	253	CE2	PHE	A	28	17.630	22.147	-2.427	1.00	23.74
ATOM	254	CD2	PHE	A	28	17.172	21.292	-3.420	1.00	23.76
ATOM	255	C	PHE	A	28	13.853	19.809	-3.923	1.00	23.38
ATOM	256	O	PHE	A	28	14.109	20.890	-4.466	1.00	22.93
ATOM	257	N	ALA	A	29	12.739	19.577	-3.244	1.00	23.41
ATOM	259	CA	ALA	A	29	11.760	20.650	-3.022	1.00	22.89
ATOM	260	CB	ALA	A	29	11.077	20.995	-4.343	1.00	23.75
ATOM	261	C	ALA	A	29	10.686	20.270	-2.009	1.00	22.80
ATOM	262	O	ALA	A	29	10.338	19.095	-1.852	1.00	22.68
ATOM	263	N	VAL	A	30	10.163	21.304	-1.364	1.00	23.63
ATOM	265	CA	VAL	A	30	9.004	21.219	-0.450	1.00	23.70
ATOM	266	CB	VAL	A	30	7.806	20.619	-1.189	1.00	23.97
ATOM	267	CG1	VAL	A	30	6.649	20.312	-0.241	1.00	24.62
ATOM	268	CG2	VAL	A	30	7.343	21.542	-2.313	1.00	23.77
ATOM	269	C	VAL	A	30	9.279	20.458	0.849	1.00	23.16
ATOM	270	O	VAL	A	30	9.463	19.235	0.863	1.00	23.04
ATOM	271	N	GLY	A	31	9.271	21.215	1.936	1.00	22.80
ATOM	273	CA	GLY	A	31	9.406	20.648	3.280	1.00	22.28
ATOM	274	C	GLY	A	31	8.442	21.328	4.252	1.00	21.88
ATOM	275	O	GLY	A	31	7.225	21.116	4.214	1.00	21.64
ATOM	276	N	LEU	A	32	9.007	22.129	5.138	1.00	21.78
ATOM	278	CA	LEU	A	32	8.207	22.877	6.117	1.00	21.43
ATOM	279	CB	LEU	A	32	8.544	22.349	7.515	1.00	22.42
ATOM	280	CG	LEU	A	32	7.599	22.865	8.597	1.00	22.76
ATOM	281	CD1	LEU	A	32	6.170	22.410	8.334	1.00	23.25
ATOM	282	CD2	LEU	A	32	8.060	22.407	9.976	1.00	22.89
ATOM	283	C	LEU	A	32	8.547	24.365	6.014	1.00	20.99
ATOM	284	O	LEU	A	32	7.801	25.152	5.414	1.00	20.51
ATOM	285	N	CYS	A	33	9.712	24.716	6.533	1.00	21.11
ATOM	287	CA	CYS	A	33	10.181	26.103	6.497	1.00	20.83
ATOM	288	CB	CYS	A	33	10.731	26.453	7.873	1.00	21.69
ATOM	289	SG	CYS	A	33	9.540	26.401	9.225	1.00	21.95
ATOM	290	C	CYS	A	33	11.280	26.263	5.454	1.00	20.22
ATOM	291	O	CYS	A	33	12.394	25.764	5.641	1.00	20.04
ATOM	292	N	ALA	A	34	10.950	26.901	4.340	1.00	20.02
ATOM	294	CA	ALA	A	34	11.963	27.127	3.294	1.00	19.55
ATOM	295	CB	ALA	A	34	12.020	25.927	2.347	1.00	20.28
ATOM	296	C	ALA	A	34	11.870	28.478	2.542	1.00	19.00

ATOM	297	O	ALA	A	34	12.598	29.398	2.938	1.00	18.64
ATOM	298	N	PRO	A	35	10.921	28.691	1.630	1.00	19.10
ATOM	299	CA	PRO	A	35	11.203	29.563	0.471	1.00	18.67
ATOM	300	CB	PRO	A	35	9.981	29.495	-0.396	1.00	18.52
ATOM	301	CG	PRO	A	35	8.995	28.499	0.185	1.00	18.81
ATOM	302	CD	PRO	A	35	9.668	27.947	1.430	1.00	19.17
ATOM	303	C	PRO	A	35	11.525	31.010	0.840	1.00	18.54
ATOM	304	O	PRO	A	35	12.696	31.356	1.047	1.00	18.21
ATOM	305	N	ILE	A	36	10.488	31.759	1.181	1.00	19.59
ATOM	307	CA	ILE	A	36	10.641	33.187	1.498	1.00	19.45
ATOM	308	CB	ILE	A	36	9.262	33.831	1.382	1.00	19.67
ATOM	309	CG2	ILE	A	36	9.274	35.299	1.805	1.00	19.81
ATOM	310	CG1	ILE	A	36	8.739	33.712	-0.043	1.00	20.01
ATOM	311	CD1	ILE	A	36	9.622	34.488	-1.016	1.00	20.78
ATOM	312	C	ILE	A	36	11.232	33.429	2.891	1.00	19.16
ATOM	313	O	ILE	A	36	11.830	34.483	3.116	1.00	19.14
ATOM	314	N	TYR	A	37	11.370	32.359	3.656	1.00	19.07
ATOM	316	CA	TYR	A	37	11.889	32.423	5.020	1.00	18.90
ATOM	317	CB	TYR	A	37	11.235	31.245	5.735	1.00	19.62
ATOM	318	CG	TYR	A	37	11.389	31.176	7.249	1.00	20.13
ATOM	319	CD1	TYR	A	37	11.392	32.330	8.019	1.00	20.53
ATOM	320	CE1	TYR	A	37	11.519	32.240	9.398	1.00	21.08
ATOM	321	CZ	TYR	A	37	11.632	30.996	10.000	1.00	21.23
ATOM	322	OH	TYR	A	37	11.783	30.899	11.364	1.00	21.89
ATOM	323	CE2	TYR	A	37	11.615	29.843	9.233	1.00	20.85
ATOM	324	CD2	TYR	A	37	11.488	29.934	7.857	1.00	20.30
ATOM	325	C	TYR	A	37	13.418	32.291	5.031	1.00	18.56
ATOM	326	O	TYR	A	37	14.058	32.505	6.068	1.00	18.70
ATOM	327	N	CYS	A	38	13.973	31.887	3.897	1.00	18.26
ATOM	329	CA	CYS	A	38	15.424	31.862	3.711	1.00	18.03
ATOM	330	CB	CYS	A	38	15.805	30.492	3.156	1.00	18.35
ATOM	331	SG	CYS	A	38	17.572	30.172	2.943	1.00	19.04
ATOM	332	C	CYS	A	38	15.860	32.949	2.731	1.00	17.59
ATOM	333	O	CYS	A	38	17.037	33.330	2.693	1.00	17.59
ATOM	334	N	VAL	A	39	14.908	33.454	1.960	1.00	17.35
ATOM	336	CA	VAL	A	39	15.210	34.551	1.035	1.00	17.03
ATOM	337	CB	VAL	A	39	14.194	34.530	-0.105	1.00	17.39
ATOM	338	CG1	VAL	A	39	14.333	35.745	-1.018	1.00	17.82
ATOM	339	CG2	VAL	A	39	14.314	33.244	-0.913	1.00	17.41
ATOM	340	C	VAL	A	39	15.149	35.880	1.781	1.00	16.57
ATOM	341	O	VAL	A	39	15.960	36.786	1.549	1.00	16.13
ATOM	342	N	SER	A	40	14.231	35.949	2.726	1.00	16.82
ATOM	344	CA	SER	A	40	14.179	37.070	3.654	1.00	16.58
ATOM	345	CB	SER	A	40	12.721	37.433	3.889	1.00	17.10
ATOM	346	OG	SER	A	40	12.109	37.609	2.621	1.00	17.63
ATOM	347	C	SER	A	40	14.804	36.625	4.965	1.00	16.18
ATOM	348	O	SER	A	40	14.580	35.489	5.400	1.00	16.02
ATOM	349	N	PRO	A	41	15.636	37.477	5.538	1.00	16.16
ATOM	350	CA	PRO	A	41	16.177	37.231	6.876	1.00	15.95
ATOM	351	CB	PRO	A	41	17.273	38.241	7.028	1.00	16.47
ATOM	352	CG	PRO	A	41	17.185	39.250	5.894	1.00	16.77
ATOM	353	CD	PRO	A	41	16.067	38.763	4.989	1.00	16.71
ATOM	354	C	PRO	A	41	15.114	37.434	7.957	1.00	15.51
ATOM	355	O	PRO	A	41	14.924	38.547	8.457	1.00	15.39
ATOM	356	N	ALA	A	42	14.424	36.364	8.300	1.00	15.56
ATOM	358	CA	ALA	A	42	13.462	36.422	9.397	1.00	15.32
ATOM	359	CB	ALA	A	42	12.173	35.720	8.986	1.00	15.56
ATOM	360	C	ALA	A	42	14.074	35.757	10.620	1.00	15.35

ATOM	361	O	ALA	A	42	15.113	36.201	11.123	1.00	15.57
ATOM	362	N	ASN	A	43	13.442	34.692	11.080	1.00	15.19
ATOM	364	CA	ASN	A	43	13.969	33.959	12.235	1.00	15.22
ATOM	365	CB	ASN	A	43	12.840	33.244	12.961	1.00	15.86
ATOM	366	CG	ASN	A	43	11.718	34.223	13.290	1.00	15.73
ATOM	367	OD1	ASN	A	43	11.957	35.352	13.733	1.00	15.55
ATOM	368	ND2	ASN	A	43	10.500	33.783	13.031	1.00	15.89
ATOM	371	C	ASN	A	43	15.024	32.956	11.791	1.00	15.19
ATOM	372	O	ASN	A	43	14.746	31.882	11.237	1.00	14.96
ATOM	373	N	ALA	A	44	16.258	33.361	12.016	1.00	15.41
ATOM	375	CA	ALA	A	44	17.414	32.551	11.648	1.00	15.49
ATOM	376	CB	ALA	A	44	18.618	33.479	11.534	1.00	16.78
ATOM	377	C	ALA	A	44	17.689	31.461	12.680	1.00	14.95
ATOM	378	O	ALA	A	44	17.239	31.539	13.828	1.00	14.99
ATOM	379	N	PRO	A	45	18.323	30.397	12.217	1.00	14.51
ATOM	380	CA	PRO	A	45	18.417	30.065	10.794	1.00	14.09
ATOM	381	CB	PRO	A	45	19.749	29.386	10.732	1.00	15.04
ATOM	382	CG	PRO	A	45	19.991	28.754	12.102	1.00	15.75
ATOM	383	CD	PRO	A	45	18.914	29.328	13.016	1.00	15.56
ATOM	384	C	PRO	A	45	17.366	29.040	10.370	1.00	13.14
ATOM	385	O	PRO	A	45	17.726	28.150	9.594	1.00	12.61
ATOM	386	N	SER	A	46	16.093	29.241	10.684	1.00	12.99
ATOM	388	CA	SER	A	46	15.135	28.120	10.687	1.00	12.17
ATOM	389	CB	SER	A	46	13.896	28.570	11.446	1.00	12.36
ATOM	390	OG	SER	A	46	14.304	29.125	12.688	1.00	13.04
ATOM	391	C	SER	A	46	14.710	27.579	9.315	1.00	11.42
ATOM	392	O	SER	A	46	14.251	26.433	9.244	1.00	10.99
ATOM	393	N	ALA	A	47	15.008	28.290	8.241	1.00	11.41
ATOM	395	CA	ALA	A	47	14.719	27.767	6.902	1.00	10.80
ATOM	396	CB	ALA	A	47	14.344	28.923	5.995	1.00	11.50
ATOM	397	C	ALA	A	47	15.892	26.992	6.294	1.00	10.75
ATOM	398	O	ALA	A	47	15.772	26.447	5.193	1.00	10.39
ATOM	399	N	TYR	A	48	17.013	26.957	6.995	1.00	12.04
ATOM	401	CA	TYR	A	48	18.177	26.175	6.553	1.00	11.89
ATOM	402	CB	TYR	A	48	19.448	26.926	6.935	1.00	12.88
ATOM	403	CG	TYR	A	48	20.719	26.229	6.463	1.00	13.41
ATOM	404	CD1	TYR	A	48	20.842	25.842	5.134	1.00	13.91
ATOM	405	CE1	TYR	A	48	21.991	25.194	4.703	1.00	14.50
ATOM	406	CZ	TYR	A	48	23.016	24.938	5.603	1.00	14.60
ATOM	407	OH	TYR	A	48	24.103	24.194	5.203	1.00	15.31
ATOM	408	CE2	TYR	A	48	22.904	25.338	6.929	1.00	14.16
ATOM	409	CD2	TYR	A	48	21.753	25.985	7.359	1.00	13.55
ATOM	410	C	TYR	A	48	18.251	24.717	7.075	1.00	11.54
ATOM	411	O	TYR	A	48	18.628	23.860	6.261	1.00	11.71
ATOM	412	N	PRO	A	49	17.912	24.374	8.323	1.00	11.19
ATOM	413	CA	PRO	A	49	17.932	22.951	8.679	1.00	10.95
ATOM	414	CB	PRO	A	49	17.660	22.880	10.145	1.00	11.17
ATOM	415	CG	PRO	A	49	17.388	24.271	10.678	1.00	11.31
ATOM	416	CD	PRO	A	49	17.545	25.195	9.489	1.00	11.40
ATOM	417	C	PRO	A	49	16.905	22.114	7.930	1.00	10.04
ATOM	418	O	PRO	A	49	17.225	20.968	7.584	1.00	9.90
ATOM	419	N	ARG	A	50	15.827	22.740	7.482	1.00	9.55
ATOM	421	CA	ARG	A	50	14.794	22.014	6.748	1.00	8.74
ATOM	422	CB	ARG	A	50	13.594	22.910	6.472	1.00	9.11
ATOM	423	CG	ARG	A	50	12.455	22.038	5.975	1.00	9.19
ATOM	424	CD	ARG	A	50	12.107	21.007	7.043	1.00	9.81
ATOM	425	NE	ARG	A	50	11.247	19.944	6.506	1.00	10.42
ATOM	426	CZ	ARG	A	50	10.609	19.062	7.276	1.00	11.31

ATOM	427	NH1	ARG	A	50	10.725	19.129	8.604	1.00	12.00
ATOM	428	NH2	ARG	A	50	9.837	18.127	6.718	1.00	11.69
ATOM	429	C	ARG	A	50	15.308	21.335	5.466	1.00	8.18
ATOM	430	O	ARG	A	50	15.260	20.103	5.438	1.00	8.13
ATOM	431	N	PRO	A	51	15.873	22.027	4.482	1.00	7.98
ATOM	432	CA	PRO	A	51	16.236	21.311	3.255	1.00	7.63
ATOM	433	CB	PRO	A	51	16.414	22.386	2.227	1.00	8.38
ATOM	434	CG	PRO	A	51	16.443	23.742	2.908	1.00	9.01
ATOM	435	CD	PRO	A	51	16.118	23.472	4.362	1.00	8.97
ATOM	436	C	PRO	A	51	17.507	20.444	3.310	1.00	7.66
ATOM	437	O	PRO	A	51	17.716	19.692	2.350	1.00	7.43
ATOM	438	N	SER	A	52	18.302	20.463	4.373	1.00	8.11
ATOM	440	CA	SER	A	52	19.584	19.749	4.262	1.00	8.31
ATOM	441	CB	SER	A	52	20.475	20.588	3.351	1.00	9.41
ATOM	442	OG	SER	A	52	20.648	21.850	3.986	1.00	10.16
ATOM	443	C	SER	A	52	20.376	19.533	5.550	1.00	7.49
ATOM	444	O	SER	A	52	21.315	18.726	5.531	1.00	7.60
ATOM	445	N	SER	A	53	20.008	20.183	6.640	1.00	6.82
ATOM	447	CA	SER	A	53	20.992	20.341	7.719	1.00	6.11
ATOM	448	CB	SER	A	53	21.021	21.802	8.132	1.00	8.00
ATOM	449	OG	SER	A	53	21.153	22.562	6.938	1.00	8.48
ATOM	450	C	SER	A	53	20.803	19.469	8.954	1.00	5.80
ATOM	451	O	SER	A	53	19.680	19.110	9.342	1.00	6.02
ATOM	452	N	THR	A	54	21.872	19.538	9.736	1.00	6.64
ATOM	454	CA	THR	A	54	22.105	18.732	10.950	1.00	6.72
ATOM	455	CB	THR	A	54	23.588	18.765	11.298	1.00	7.78
ATOM	456	OG1	THR	A	54	23.918	20.088	11.700	1.00	8.09
ATOM	457	CG2	THR	A	54	24.477	18.369	10.126	1.00	8.15
ATOM	458	C	THR	A	54	21.346	19.183	12.197	1.00	6.30
ATOM	459	O	THR	A	54	21.670	18.742	13.305	1.00	6.19
ATOM	460	N	LYS	A	55	20.346	20.027	12.031	1.00	6.22
ATOM	462	CA	LYS	A	55	19.660	20.554	13.200	1.00	6.00
ATOM	463	CB	LYS	A	55	19.417	22.045	12.977	1.00	6.38
ATOM	464	CG	LYS	A	55	18.813	22.772	14.181	1.00	7.21
ATOM	465	CD	LYS	A	55	19.856	23.354	15.142	1.00	7.56
ATOM	466	CE	LYS	A	55	20.675	22.295	15.874	1.00	8.08
ATOM	467	NZ	LYS	A	55	21.674	22.919	16.753	1.00	8.26
ATOM	468	C	LYS	A	55	18.341	19.833	13.484	1.00	5.00
ATOM	469	O	LYS	A	55	17.994	19.685	14.661	1.00	5.17
ATOM	470	N	SER	A	56	17.660	19.312	12.470	1.00	4.28
ATOM	472	CA	SER	A	56	16.344	18.717	12.756	1.00	3.33
ATOM	473	CB	SER	A	56	15.358	19.866	12.979	1.00	2.95
ATOM	474	OG	SER	A	56	15.435	20.755	11.867	1.00	3.03
ATOM	475	C	SER	A	56	15.751	17.768	11.705	1.00	2.29
ATOM	476	O	SER	A	56	15.363	16.644	12.058	1.00	2.75
ATOM	477	N	THR	A	57	15.867	18.108	10.433	1.00	1.18
ATOM	479	CA	THR	A	57	14.941	17.542	9.435	1.00	0.39
ATOM	480	CB	THR	A	57	15.098	18.307	8.142	1.00	1.62
ATOM	481	OG1	THR	A	57	14.781	19.647	8.463	1.00	2.31
ATOM	482	CG2	THR	A	57	14.113	17.803	7.097	1.00	2.10
ATOM	483	C	THR	A	57	14.971	16.022	9.224	1.00	0.19
ATOM	484	O	THR	A	57	13.954	15.407	9.576	1.00	0.28
ATOM	485	N	PRO	A	58	16.067	15.391	8.806	1.00	0.34
ATOM	486	CA	PRO	A	58	16.016	13.941	8.552	1.00	0.33
ATOM	487	CB	PRO	A	58	17.316	13.606	7.896	1.00	1.25
ATOM	488	CG	PRO	A	58	18.167	14.854	7.779	1.00	1.43
ATOM	489	CD	PRO	A	58	17.362	15.969	8.412	1.00	1.02
ATOM	490	C	PRO	A	58	15.748	13.029	9.760	1.00	0.16

ATOM	491	O	PRO	A	58	15.268	11.914	9.523	1.00	0.19
ATOM	492	N	ALA	A	59	15.759	13.536	10.987	1.00	0.18
ATOM	494	CA	ALA	A	59	15.399	12.691	12.132	1.00	0.16
ATOM	495	CB	ALA	A	59	15.816	13.375	13.426	1.00	0.63
ATOM	496	C	ALA	A	59	13.893	12.442	12.176	1.00	0.16
ATOM	497	O	ALA	A	59	13.474	11.296	12.374	1.00	0.31
ATOM	498	N	SER	A	60	13.125	13.402	11.685	1.00	0.01
ATOM	500	CA	SER	A	60	11.671	13.222	11.618	1.00	0.01
ATOM	501	CB	SER	A	60	10.987	14.584	11.676	1.00	0.23
ATOM	502	OG	SER	A	60	11.286	15.282	10.474	1.00	1.03
ATOM	503	C	SER	A	60	11.255	12.503	10.338	1.00	0.00
ATOM	504	O	SER	A	60	10.154	11.946	10.267	1.00	0.01
ATOM	505	N	GLN	A	61	12.183	12.377	9.404	1.00	0.01
ATOM	507	CA	GLN	A	61	11.887	11.693	8.150	1.00	0.00
ATOM	508	CB	GLN	A	61	12.694	12.362	7.050	1.00	0.37
ATOM	509	CG	GLN	A	61	12.342	13.843	6.975	1.00	1.02
ATOM	510	CD	GLN	A	61	13.163	14.531	5.893	1.00	1.17
ATOM	511	OE1	GLN	A	61	14.396	14.598	5.976	1.00	1.88
ATOM	512	NE2	GLN	A	61	12.459	15.114	4.939	1.00	1.51
ATOM	515	C	GLN	A	61	12.235	10.212	8.246	1.00	0.01
ATOM	516	O	GLN	A	61	11.542	9.376	7.652	1.00	0.01
ATOM	517	N	VAL	A	62	13.136	9.883	9.160	1.00	0.00
ATOM	519	CA	VAL	A	62	13.470	8.477	9.399	1.00	0.01
ATOM	520	CB	VAL	A	62	14.932	8.330	9.823	1.00	0.37
ATOM	521	CG1	VAL	A	62	15.873	8.901	8.768	1.00	0.73
ATOM	522	CG2	VAL	A	62	15.210	8.953	11.185	1.00	0.81
ATOM	523	C	VAL	A	62	12.547	7.846	10.441	1.00	0.01
ATOM	524	O	VAL	A	62	12.561	6.617	10.582	1.00	0.01
ATOM	525	N	TYR	A	63	11.609	8.627	10.964	1.00	0.00
ATOM	527	CA	TYR	A	63	10.620	8.144	11.940	1.00	0.01
ATOM	528	CB	TYR	A	63	9.681	9.308	12.252	1.00	0.95
ATOM	529	CG	TYR	A	63	8.348	8.934	12.904	1.00	1.26
ATOM	530	CD1	TYR	A	63	7.161	9.196	12.228	1.00	1.76
ATOM	531	CE1	TYR	A	63	5.941	8.859	12.802	1.00	2.50
ATOM	532	CZ	TYR	A	63	5.910	8.263	14.056	1.00	2.77
ATOM	533	OH	TYR	A	63	4.700	7.893	14.609	1.00	3.61
ATOM	534	CE2	TYR	A	63	7.092	8.010	14.738	1.00	2.43
ATOM	535	CD2	TYR	A	63	8.311	8.346	14.163	1.00	1.69
ATOM	536	C	TYR	A	63	9.786	6.981	11.420	1.00	0.01
ATOM	537	O	TYR	A	63	9.729	5.938	12.085	1.00	0.00
ATOM	538	N	SER	A	64	9.388	7.048	10.160	1.00	0.00
ATOM	540	CA	SER	A	64	8.518	6.008	9.618	1.00	0.01
ATOM	541	CB	SER	A	64	7.937	6.501	8.301	1.00	0.07
ATOM	542	OG	SER	A	64	7.191	7.679	8.576	1.00	0.58
ATOM	543	C	SER	A	64	9.271	4.708	9.388	1.00	0.00
ATOM	544	O	SER	A	64	8.802	3.659	9.844	1.00	0.01
ATOM	545	N	LEU	A	65	10.541	4.814	9.043	1.00	0.01
ATOM	547	CA	LEU	A	65	11.302	3.606	8.729	1.00	0.00
ATOM	548	CB	LEU	A	65	12.391	3.989	7.736	1.00	0.19
ATOM	549	CG	LEU	A	65	11.769	4.693	6.527	1.00	0.31
ATOM	550	CD1	LEU	A	65	12.829	5.223	5.568	1.00	0.42
ATOM	551	CD2	LEU	A	65	10.776	3.799	5.787	1.00	0.30
ATOM	552	C	LEU	A	65	11.868	2.975	9.999	1.00	0.00
ATOM	553	O	LEU	A	65	11.751	1.751	10.154	1.00	0.01
ATOM	554	N	ASN	A	66	12.057	3.813	11.008	1.00	0.01
ATOM	556	CA	ASN	A	66	12.478	3.354	12.336	1.00	0.01
ATOM	557	CB	ASN	A	66	12.838	4.583	13.174	1.00	0.20
ATOM	558	CG	ASN	A	66	13.358	4.202	14.562	1.00	0.42

ATOM	559	OD1	ASN	A	66	14.527	3.832	14.714	1.00	1.44
ATOM	560	ND2	ASN	A	66	12.506	4.348	15.567	1.00	0.90
ATOM	563	C	ASN	A	66	11.341	2.604	13.017	1.00	0.01
ATOM	564	O	ASN	A	66	11.543	1.472	13.473	1.00	0.01
ATOM	565	N	THR	A	67	10.125	3.104	12.857	1.00	0.00
ATOM	567	CA	THR	A	67	8.970	2.428	13.458	1.00	0.00
ATOM	568	CB	THR	A	67	7.800	3.398	13.595	1.00	0.32
ATOM	569	OG1	THR	A	67	7.469	3.918	12.315	1.00	1.02
ATOM	570	CG2	THR	A	67	8.152	4.565	14.508	1.00	1.22
ATOM	571	C	THR	A	67	8.546	1.202	12.655	1.00	0.01
ATOM	572	O	THR	A	67	8.146	0.206	13.268	1.00	0.00
ATOM	573	N	ASP	A	68	8.887	1.166	11.376	1.00	0.01
ATOM	575	CA	ASP	A	68	8.646	-0.036	10.573	1.00	0.01
ATOM	576	CB	ASP	A	68	8.899	0.265	9.098	1.00	0.09
ATOM	577	CG	ASP	A	68	7.881	1.263	8.547	1.00	0.60
ATOM	578	OD1	ASP	A	68	6.748	1.239	9.009	1.00	0.78
ATOM	579	OD2	ASP	A	68	8.223	1.944	7.587	1.00	1.02
ATOM	580	C	ASP	A	68	9.571	-1.160	11.021	1.00	0.01
ATOM	581	O	ASP	A	68	9.068	-2.216	11.426	1.00	0.01
ATOM	582	N	PHE	A	69	10.832	-0.827	11.256	1.00	0.00
ATOM	584	CA	PHE	A	69	11.808	-1.808	11.748	1.00	0.01
ATOM	585	CB	PHE	A	69	13.193	-1.172	11.652	1.00	0.01
ATOM	586	CG	PHE	A	69	14.294	-1.923	12.397	1.00	0.01
ATOM	587	CD1	PHE	A	69	14.711	-3.173	11.958	1.00	0.00
ATOM	588	CE1	PHE	A	69	15.708	-3.853	12.645	1.00	0.01
ATOM	589	CZ	PHE	A	69	16.288	-3.285	13.772	1.00	0.01
ATOM	590	CE2	PHE	A	69	15.871	-2.035	14.212	1.00	0.01
ATOM	591	CD2	PHE	A	69	14.874	-1.355	13.525	1.00	0.01
ATOM	592	C	PHE	A	69	11.537	-2.226	13.195	1.00	0.01
ATOM	593	O	PHE	A	69	11.671	-3.414	13.524	1.00	0.01
ATOM	594	N	ALA	A	70	10.940	-1.334	13.966	1.00	0.01
ATOM	596	CA	ALA	A	70	10.573	-1.645	15.346	1.00	0.01
ATOM	597	CB	ALA	A	70	10.227	-0.336	16.042	1.00	0.01
ATOM	598	C	ALA	A	70	9.382	-2.598	15.426	1.00	0.00
ATOM	599	O	ALA	A	70	9.438	-3.570	16.190	1.00	0.01
ATOM	600	N	PHE	A	71	8.457	-2.481	14.485	1.00	0.01
ATOM	602	CA	PHE	A	71	7.313	-3.398	14.453	1.00	0.01
ATOM	603	CB	PHE	A	71	6.218	-2.830	13.556	1.00	0.00
ATOM	604	CG	PHE	A	71	5.568	-1.540	14.048	1.00	0.01
ATOM	605	CD1	PHE	A	71	5.361	-1.330	15.406	1.00	0.01
ATOM	606	CE1	PHE	A	71	4.772	-0.151	15.843	1.00	0.00
ATOM	607	CZ	PHE	A	71	4.383	0.813	14.922	1.00	0.00
ATOM	608	CE2	PHE	A	71	4.575	0.596	13.564	1.00	0.00
ATOM	609	CD2	PHE	A	71	5.163	-0.583	13.127	1.00	0.00
ATOM	610	C	PHE	A	71	7.731	-4.758	13.915	1.00	0.00
ATOM	611	O	PHE	A	71	7.347	-5.783	14.495	1.00	0.01
ATOM	612	N	ARG	A	72	8.702	-4.756	13.016	1.00	0.00
ATOM	614	CA	ARG	A	72	9.225	-6.011	12.474	1.00	0.01
ATOM	615	CB	ARG	A	72	10.216	-5.697	11.365	1.00	0.20
ATOM	616	CG	ARG	A	72	9.590	-4.923	10.217	1.00	0.96
ATOM	617	CD	ARG	A	72	10.667	-4.523	9.219	1.00	1.05
ATOM	618	NE	ARG	A	72	10.152	-3.580	8.218	1.00	1.27
ATOM	619	CZ	ARG	A	72	10.946	-3.002	7.317	1.00	1.66
ATOM	620	NH1	ARG	A	72	10.449	-2.099	6.470	1.00	2.10
ATOM	621	NH2	ARG	A	72	12.249	-3.292	7.300	1.00	2.00
ATOM	622	C	ARG	A	72	9.964	-6.806	13.537	1.00	0.01
ATOM	623	O	ARG	A	72	9.629	-7.974	13.760	1.00	0.00
ATOM	624	N	LEU	A	73	10.764	-6.124	14.341	1.00	0.00

ATOM	626	CA	LEU	A	73	11.537	-6.823	15.365	1.00	0.01
ATOM	627	CB	LEU	A	73	12.664	-5.899	15.815	1.00	0.01
ATOM	628	CG	LEU	A	73	13.628	-6.598	16.766	1.00	0.01
ATOM	629	CD1	LEU	A	73	14.126	-7.909	16.170	1.00	0.01
ATOM	630	CD2	LEU	A	73	14.801	-5.690	17.118	1.00	0.01
ATOM	631	C	LEU	A	73	10.670	-7.237	16.555	1.00	0.01
ATOM	632	O	LEU	A	73	10.824	-8.367	17.037	1.00	0.01
ATOM	633	N	TYR	A	74	9.610	-6.490	16.824	1.00	0.01
ATOM	635	CA	TYR	A	74	8.727	-6.861	17.930	1.00	0.01
ATOM	636	CB	TYR	A	74	7.800	-5.698	18.262	1.00	0.01
ATOM	637	CG	TYR	A	74	6.878	-5.984	19.444	1.00	0.01
ATOM	638	CD1	TYR	A	74	7.378	-5.918	20.739	1.00	0.01
ATOM	639	CE1	TYR	A	74	6.547	-6.185	21.819	1.00	0.01
ATOM	640	CZ	TYR	A	74	5.217	-6.518	21.600	1.00	0.00
ATOM	641	OH	TYR	A	74	4.393	-6.794	22.670	1.00	0.01
ATOM	642	CE2	TYR	A	74	4.714	-6.584	20.307	1.00	0.01
ATOM	643	CD2	TYR	A	74	5.546	-6.316	19.228	1.00	0.01
ATOM	644	C	TYR	A	74	7.896	-8.082	17.574	1.00	0.01
ATOM	645	O	TYR	A	74	7.932	-9.072	18.316	1.00	0.01
ATOM	646	N	ARG	A	75	7.412	-8.126	16.344	1.00	0.01
ATOM	648	CA	ARG	A	75	6.597	-9.263	15.920	1.00	0.00
ATOM	649	CB	ARG	A	75	5.781	-8.854	14.703	1.00	0.00
ATOM	650	CG	ARG	A	75	4.855	-7.695	15.048	1.00	0.01
ATOM	651	CD	ARG	A	75	4.096	-7.205	13.823	1.00	0.00
ATOM	652	NE	ARG	A	75	3.269	-6.038	14.165	1.00	0.00
ATOM	653	CZ	ARG	A	75	3.021	-5.040	13.315	1.00	0.01
ATOM	654	NH1	ARG	A	75	3.530	-5.072	12.082	1.00	0.00
ATOM	655	NH2	ARG	A	75	2.263	-4.010	13.697	1.00	0.01
ATOM	656	C	ARG	A	75	7.456	-10.480	15.599	1.00	0.01
ATOM	657	O	ARG	A	75	7.014	-11.604	15.862	1.00	0.00
ATOM	658	N	ARG	A	76	8.734	-10.261	15.336	1.00	0.01
ATOM	660	CA	ARG	A	76	9.650	-11.381	15.129	1.00	0.01
ATOM	661	CB	ARG	A	76	10.935	-10.852	14.504	1.00	0.28
ATOM	662	CG	ARG	A	76	11.790	-11.993	13.973	1.00	1.10
ATOM	663	CD	ARG	A	76	11.014	-12.768	12.914	1.00	1.58
ATOM	664	NE	ARG	A	76	11.815	-13.856	12.336	1.00	2.21
ATOM	665	CZ	ARG	A	76	11.783	-14.161	11.037	1.00	2.96
ATOM	666	NH1	ARG	A	76	12.433	-15.236	10.589	1.00	3.85
ATOM	667	NH2	ARG	A	76	11.019	-13.449	10.206	1.00	3.23
ATOM	668	C	ARG	A	76	9.975	-12.057	16.456	1.00	0.01
ATOM	669	O	ARG	A	76	9.903	-13.288	16.537	1.00	0.01
ATOM	670	N	LEU	A	77	10.031	-11.279	17.525	1.00	0.01
ATOM	672	CA	LEU	A	77	10.285	-11.858	18.848	1.00	0.01

ATOM	673	CB	LEU	A	77	10.772	- 10.752	19.775	1.00	0.01
ATOM	674	CG	LEU	A	77	12.100	- 10.176	19.297	1.00	0.01
ATOM	675	CD1	LEU	A	77	12.468	-8.915	20.069	1.00	0.01
ATOM	676	CD2	LEU	A	77	13.216	- 11.213	19.375	1.00	0.01
ATOM	677	C	LEU	A	77	9.033	- 12.517	19.425	1.00	0.01
ATOM	678	O	LEU	A	77	9.147	- 13.600	20.020	1.00	0.01
ATOM	679	N	VAL	A	78	7.869	- 12.043	19.002	1.00	0.01
ATOM	681	CA	VAL	A	78	6.603	- 12.672	19.402	1.00	0.01
ATOM	682	CB	VAL	A	78	5.447	- 11.736	19.045	1.00	0.11
ATOM	683	CG1	VAL	A	78	4.095	- 12.384	19.325	1.00	0.20
ATOM	684	CG2	VAL	A	78	5.551	- 10.403	19.773	1.00	0.20
ATOM	685	C	VAL	A	78	6.398	- 13.999	18.675	1.00	0.01
ATOM	686	O	VAL	A	78	6.015	- 14.989	19.310	1.00	0.01
ATOM	687	N	LEU	A	79	6.872	- 14.068	17.439	1.00	0.01
ATOM	689	CA	LEU	A	79	6.763	- 15.296	16.644	1.00	0.01
ATOM	690	CB	LEU	A	79	6.776	- 14.925	15.166	1.00	0.19
ATOM	691	CG	LEU	A	79	5.533	- 14.129	14.784	1.00	0.24
ATOM	692	CD1	LEU	A	79	5.635	- 13.603	13.357	1.00	0.38
ATOM	693	CD2	LEU	A	79	4.266	- 14.957	14.971	1.00	0.37
ATOM	694	C	LEU	A	79	7.882	- 16.294	16.933	1.00	0.01
ATOM	695	O	LEU	A	79	7.786	- 17.458	16.528	1.00	0.01
ATOM	696	N	GLU	A	80	8.912	- 15.863	17.642	1.00	0.01
ATOM	698	CA	GLU	A	80	9.894	- 16.823	18.142	1.00	0.01
ATOM	699	CB	GLU	A	80	11.209	- 16.127	18.478	1.00	0.49
ATOM	700	CG	GLU	A	80	11.857	- 15.481	17.258	1.00	1.39
ATOM	701	CD	GLU	A	80	12.079	- 16.498	16.142	1.00	1.48
ATOM	702	OE1	GLU	A	80	11.433	- 16.347	15.114	1.00	2.26
ATOM	703	OE2	GLU	A	80	13.034	- 17.252	16.255	1.00	1.23
ATOM	704	C	GLU	A	80	9.318	- 17.467	19.394	1.00	0.01
ATOM	705	O	GLU	A	80	9.257	- 18.698	19.495	1.00	0.01

ATOM	706	N	THR	A	81	8.856	-16.619	20.301	1.00	0.01
ATOM	708	CA	THR	A	81	8.132	-17.067	21.498	1.00	0.02
ATOM	709	CB	THR	A	81	8.969	-17.980	22.395	1.00	1.52
ATOM	710	OG1	THR	A	81	8.309	-18.010	23.652	1.00	2.01
ATOM	711	CG2	THR	A	81	10.389	-17.486	22.633	1.00	2.60
ATOM	712	C	THR	A	81	7.596	-15.897	22.316	1.00	0.01
ATOM	713	O	THR	A	81	8.349	-15.135	22.945	1.00	0.01
ATOM	714	N	PRO	A	82	6.281	-15.924	22.474	1.00	0.01
ATOM	715	CA	PRO	A	82	5.547	-14.945	23.285	1.00	0.01
ATOM	716	CB	PRO	A	82	4.116	-15.121	22.876	1.00	0.18
ATOM	717	CG	PRO	A	82	3.983	-16.396	22.058	1.00	0.19
ATOM	718	CD	PRO	A	82	5.392	-16.932	21.889	1.00	0.14
ATOM	719	C	PRO	A	82	5.680	-15.115	24.809	1.00	0.01
ATOM	720	O	PRO	A	82	5.041	-14.357	25.547	1.00	0.01
ATOM	721	N	SER	A	83	6.493	-16.055	25.281	1.00	0.02
ATOM	723	CA	SER	A	83	6.697	-16.235	26.722	1.00	0.01
ATOM	724	CB	SER	A	83	6.985	-17.702	27.015	1.00	0.01
ATOM	725	OG	SER	A	83	8.279	-18.000	26.509	1.00	0.02
ATOM	726	C	SER	A	83	7.868	-15.393	27.232	1.00	0.01
ATOM	727	O	SER	A	83	8.277	-15.528	28.391	1.00	0.01
ATOM	728	N	GLN	A	84	8.492	-14.651	26.334	1.00	0.02
ATOM	730	CA	GLN	A	84	9.553	-13.730	26.735	1.00	0.01
ATOM	731	CB	GLN	A	84	10.513	-13.545	25.567	1.00	1.11
ATOM	732	CG	GLN	A	84	11.173	-14.843	25.130	1.00	1.61
ATOM	733	CD	GLN	A	84	12.060	-14.558	23.922	1.00	1.93
ATOM	734	OE1	GLN	A	84	13.283	-14.730	23.977	1.00	2.66
ATOM	735	NE2	GLN	A	84	11.422	-14.146	22.838	1.00	1.90
ATOM	738	C	GLN	A	84	8.991	-12.358	27.076	1.00	0.00
ATOM	739	O	GLN	A	84	8.119	-11.841	26.368	1.00	0.01
ATOM	740	N	ASN	A	85	9.526	-	28.132	1.00	0.01

ATOM	742	CA	ASN	A	85	9.314	11.766 - 10.334	28.379	1.00	0.01
ATOM	743	CB	ASN	A	85	9.736	-9.974	29.798	1.00	0.01
ATOM	744	CG	ASN	A	85	8.816	- 10.618	30.824	1.00	0.02
ATOM	745	OD1	ASN	A	85	7.585	- 10.488	30.751	1.00	0.01
ATOM	746	ND2	ASN	A	85	9.426	- 11.245	31.811	1.00	0.01
ATOM	749	C	ASN	A	85	10.170	-9.542	27.399	1.00	0.01
ATOM	750	O	ASN	A	85	11.369	-9.336	27.617	1.00	0.01
ATOM	751	N	ILE	A	86	9.554	-9.156	26.297	1.00	0.01
ATOM	753	CA	ILE	A	86	10.277	-8.469	25.226	1.00	0.01
ATOM	754	CB	ILE	A	86	9.369	-8.454	23.996	1.00	0.01
ATOM	755	CG2	ILE	A	86	10.021	-7.781	22.792	1.00	0.00
ATOM	756	CG1	ILE	A	86	8.974	-9.879	23.629	1.00	0.01
ATOM	757	CD1	ILE	A	86	8.153	-9.905	22.347	1.00	0.01
ATOM	758	C	ILE	A	86	10.661	-7.064	25.671	1.00	0.00
ATOM	759	O	ILE	A	86	9.906	-6.417	26.406	1.00	0.01
ATOM	760	N	PHE	A	87	11.877	-6.664	25.342	1.00	0.01
ATOM	762	CA	PHE	A	87	12.324	-5.303	25.630	1.00	0.00
ATOM	763	CB	PHE	A	87	12.633	-5.134	27.110	1.00	0.01
ATOM	764	CG	PHE	A	87	12.846	-3.664	27.423	1.00	0.01
ATOM	765	CD1	PHE	A	87	11.782	-2.784	27.282	1.00	0.00
ATOM	766	CE1	PHE	A	87	11.964	-1.432	27.531	1.00	0.01
ATOM	767	CZ	PHE	A	87	13.213	-0.964	27.912	1.00	0.01
ATOM	768	CE2	PHE	A	87	14.278	-1.844	28.051	1.00	0.00
ATOM	769	CD2	PHE	A	87	14.094	-3.197	27.807	1.00	0.01
ATOM	770	C	PHE	A	87	13.559	-4.950	24.810	1.00	0.01
ATOM	771	O	PHE	A	87	14.695	-5.254	25.195	1.00	0.01
ATOM	772	N	PHE	A	88	13.324	-4.284	23.696	1.00	0.01
ATOM	774	CA	PHE	A	88	14.428	-3.886	22.819	1.00	0.01
ATOM	775	CB	PHE	A	88	14.399	-4.710	21.532	1.00	0.01
ATOM	776	CG	PHE	A	88	13.216	-4.453	20.600	1.00	0.01
ATOM	777	CD1	PHE	A	88	12.037	-5.171	20.752	1.00	0.01
ATOM	778	CE1	PHE	A	88	10.966	-4.930	19.904	1.00	0.01
ATOM	779	CZ	PHE	A	88	11.076	-3.979	18.898	1.00	0.01
ATOM	780	CE2	PHE	A	88	12.258	-3.272	18.735	1.00	0.01
ATOM	781	CD2	PHE	A	88	13.329	-3.513	19.583	1.00	0.01
ATOM	782	C	PHE	A	88	14.369	-2.404	22.477	1.00	0.00
ATOM	783	O	PHE	A	88	13.301	-1.779	22.467	1.00	0.01
ATOM	784	N	SER	A	89	15.537	-1.856	22.202	1.00	0.01
ATOM	786	CA	SER	A	89	15.633	-0.485	21.714	1.00	0.00
ATOM	787	CB	SER	A	89	16.812	0.213	22.369	1.00	0.01
ATOM	788	OG	SER	A	89	17.000	1.443	21.675	1.00	0.01
ATOM	789	C	SER	A	89	15.843	-0.446	20.212	1.00	0.01
ATOM	790	O	SER	A	89	16.975	-0.633	19.739	1.00	0.01
ATOM	791	N	PRO	A	90	14.804	-0.047	19.493	1.00	0.01
ATOM	792	CA	PRO	A	90	14.926	0.148	18.048	1.00	0.01
ATOM	793	CB	PRO	A	90	13.554	0.526	17.581	1.00	0.01
ATOM	794	CG	PRO	A	90	12.621	0.615	18.780	1.00	0.01
ATOM	795	CD	PRO	A	90	13.465	0.275	19.995	1.00	0.01
ATOM	796	C	PRO	A	90	15.947	1.233	17.718	1.00	0.01
ATOM	797	O	PRO	A	90	16.867	0.951	16.942	1.00	0.01
ATOM	798	N	VAL	A	91	15.995	2.264	18.549	1.00	0.00
ATOM	800	CA	VAL	A	91	16.952	3.354	18.363	1.00	0.01
ATOM	801	CB	VAL	A	91	16.642	4.444	19.381	1.00	0.01

ATOM	802	CG1	VAL	A	91	17.798	5.427	19.540	1.00	0.01
ATOM	803	CG2	VAL	A	91	15.361	5.174	19.001	1.00	0.01
ATOM	804	C	VAL	A	91	18.409	2.908	18.486	1.00	0.01
ATOM	805	O	VAL	A	91	19.147	3.108	17.515	1.00	0.00
ATOM	806	N	SER	A	92	18.764	2.110	19.485	1.00	0.01
ATOM	808	CA	SER	A	92	20.179	1.744	19.608	1.00	0.01
ATOM	809	CB	SER	A	92	20.433	1.193	21.006	1.00	0.01
ATOM	810	OG	SER	A	92	19.684	-0.004	21.158	1.00	0.01
ATOM	811	C	SER	A	92	20.633	0.734	18.551	1.00	0.01
ATOM	812	O	SER	A	92	21.717	0.937	17.981	1.00	0.01
ATOM	813	N	VAL	A	93	19.729	-0.115	18.086	1.00	0.00
ATOM	815	CA	VAL	A	93	20.106	-1.096	17.067	1.00	0.01
ATOM	816	CB	VAL	A	93	19.066	-2.211	17.045	1.00	0.09
ATOM	817	CG1	VAL	A	93	19.417	-3.261	15.997	1.00	0.13
ATOM	818	CG2	VAL	A	93	18.926	-2.862	18.413	1.00	0.17
ATOM	819	C	VAL	A	93	20.176	-0.450	15.689	1.00	0.00
ATOM	820	O	VAL	A	93	21.195	-0.594	15.001	1.00	0.01
ATOM	821	N	SER	A	94	19.274	0.482	15.434	1.00	0.01
ATOM	823	CA	SER	A	94	19.235	1.133	14.121	1.00	0.01
ATOM	824	CB	SER	A	94	17.859	1.765	13.922	1.00	0.17
ATOM	825	OG	SER	A	94	17.660	2.767	14.914	1.00	0.70
ATOM	826	C	SER	A	94	20.327	2.189	13.969	1.00	0.01
ATOM	827	O	SER	A	94	20.922	2.291	12.888	1.00	0.01
ATOM	828	N	THR	A	95	20.775	2.742	15.084	1.00	0.01
ATOM	830	CA	THR	A	95	21.859	3.719	15.038	1.00	0.00
ATOM	831	CB	THR	A	95	21.807	4.547	16.318	1.00	0.01
ATOM	832	OG1	THR	A	95	20.577	5.260	16.317	1.00	0.02
ATOM	833	CG2	THR	A	95	22.937	5.566	16.388	1.00	0.01
ATOM	834	C	THR	A	95	23.211	3.027	14.903	1.00	0.01
ATOM	835	O	THR	A	95	24.026	3.454	14.076	1.00	0.00
ATOM	836	N	SER	A	96	23.321	1.827	15.451	1.00	0.01
ATOM	838	CA	SER	A	96	24.582	1.089	15.319	1.00	0.01
ATOM	839	CB	SER	A	96	24.727	0.089	16.462	1.00	0.15
ATOM	840	OG	SER	A	96	23.632	-0.817	16.438	1.00	0.84
ATOM	841	C	SER	A	96	24.688	0.379	13.970	1.00	0.01
ATOM	842	O	SER	A	96	25.791	0.294	13.416	1.00	0.01
ATOM	843	N	LEU	A	97	23.559	0.119	13.333	1.00	0.01
ATOM	845	CA	LEU	A	97	23.607	-0.467	11.994	1.00	0.01
ATOM	846	CB	LEU	A	97	22.315	-1.224	11.738	1.00	0.13
ATOM	847	CG	LEU	A	97	22.233	-2.463	12.617	1.00	0.13
ATOM	848	CD1	LEU	A	97	20.874	-3.135	12.478	1.00	0.64
ATOM	849	CD2	LEU	A	97	23.361	-3.436	12.290	1.00	0.47
ATOM	850	C	LEU	A	97	23.828	0.591	10.918	1.00	0.00
ATOM	851	O	LEU	A	97	24.610	0.347	9.990	1.00	0.00
ATOM	852	N	ALA	A	98	23.405	1.816	11.182	1.00	0.01
ATOM	854	CA	ALA	A	98	23.698	2.904	10.243	1.00	0.01
ATOM	855	CB	ALA	A	98	22.655	3.993	10.410	1.00	0.01
ATOM	856	C	ALA	A	98	25.103	3.470	10.455	1.00	0.00
ATOM	857	O	ALA	A	98	25.659	4.131	9.572	1.00	0.01
ATOM	858	N	MET	A	99	25.702	3.114	11.577	1.00	0.01
ATOM	860	CA	MET	A	99	27.114	3.392	11.817	1.00	0.02
ATOM	861	CB	MET	A	99	27.319	3.255	13.315	1.00	0.00
ATOM	862	CG	MET	A	99	28.783	3.315	13.704	1.00	0.01
ATOM	863	SD	MET	A	99	29.098	2.753	15.386	1.00	0.01
ATOM	864	CE	MET	A	99	28.443	1.074	15.249	1.00	0.02
ATOM	865	C	MET	A	99	27.989	2.367	11.103	1.00	0.01
ATOM	866	O	MET	A	99	28.949	2.735	10.412	1.00	0.01
ATOM	867	N	LEU	A	100	27.496	1.139	11.054	1.00	0.01

ATOM	869	CA	LEU	A	100	28.216	0.054	10.381	1.00	0.01
ATOM	870	CB	LEU	A	100	27.610	-1.265	10.847	1.00	0.01
ATOM	871	CG	LEU	A	100	28.374	-2.467	10.305	1.00	0.01
ATOM	872	CD1	LEU	A	100	29.822	-2.450	10.784	1.00	0.01
ATOM	873	CD2	LEU	A	100	27.691	-3.768	10.714	1.00	0.01
ATOM	874	C	LEU	A	100	28.104	0.162	8.862	1.00	0.01
ATOM	875	O	LEU	A	100	29.088	-0.102	8.160	1.00	0.01
ATOM	876	N	SER	A	101	27.047	0.812	8.397	1.00	0.01
ATOM	878	CA	SER	A	101	26.872	1.083	6.962	1.00	0.01
ATOM	879	CB	SER	A	101	25.395	1.301	6.668	1.00	0.00
ATOM	880	OG	SER	A	101	24.997	2.495	7.322	1.00	0.00
ATOM	881	C	SER	A	101	27.673	2.295	6.469	1.00	0.01
ATOM	882	O	SER	A	101	27.547	2.678	5.304	1.00	0.00
ATOM	883	N	LEU	A	102	28.450	2.909	7.350	1.00	0.01
ATOM	885	CA	LEU	A	102	29.438	3.915	6.944	1.00	0.01
ATOM	886	CB	LEU	A	102	29.500	5.012	7.994	1.00	0.00
ATOM	887	CG	LEU	A	102	28.356	5.997	7.809	1.00	0.01
ATOM	888	CD1	LEU	A	102	28.419	7.100	8.855	1.00	0.01
ATOM	889	CD2	LEU	A	102	28.408	6.601	6.411	1.00	0.01
ATOM	890	C	LEU	A	102	30.833	3.318	6.730	1.00	0.00
ATOM	891	O	LEU	A	102	31.800	4.067	6.540	1.00	0.01
ATOM	892	N	GLY	A	103	30.947	2.008	6.874	1.00	0.02
ATOM	894	CA	GLY	A	103	32.193	1.306	6.555	1.00	0.02
ATOM	895	C	GLY	A	103	31.876	0.155	5.611	1.00	0.01
ATOM	896	O	GLY	A	103	32.740	-0.334	4.866	1.00	0.02
ATOM	897	N	ALA	A	104	30.658	-0.337	5.756	1.00	0.01
ATOM	899	CA	ALA	A	104	30.107	-1.315	4.823	1.00	0.00
ATOM	900	CB	ALA	A	104	28.828	-1.898	5.410	1.00	0.60
ATOM	901	C	ALA	A	104	29.798	-0.648	3.494	1.00	0.01
ATOM	902	O	ALA	A	104	29.377	0.511	3.431	1.00	0.01
ATOM	903	N	HIS	A	105	30.084	-1.371	2.434	1.00	0.01
ATOM	905	CA	HIS	A	105	29.819	-0.868	1.093	1.00	0.01
ATOM	906	CB	HIS	A	105	31.163	-0.638	0.413	1.00	0.36
ATOM	907	CG	HIS	A	105	31.157	0.500	-0.582	1.00	1.35
ATOM	908	ND1	HIS	A	105	30.544	1.685	-0.417	1.00	1.70
ATOM	910	CE1	HIS	A	105	30.748	2.447	-1.511	1.00	2.51
ATOM	911	NE2	HIS	A	105	31.505	1.730	-2.373	1.00	2.95
ATOM	912	CD2	HIS	A	105	31.767	0.527	-1.813	1.00	2.35
ATOM	913	C	HIS	A	105	28.971	-1.875	0.322	1.00	0.01
ATOM	914	O	HIS	A	105	28.605	-2.934	0.858	1.00	0.01
ATOM	915	N	SER	A	106	28.645	-1.518	-0.912	1.00	0.01
ATOM	917	CA	SER	A	106	27.870	-2.369	-1.833	1.00	0.00
ATOM	918	CB	SER	A	106	28.789	-3.466	-2.358	1.00	0.30
ATOM	919	OG	SER	A	106	29.945	-2.846	-2.902	1.00	0.54
ATOM	920	C	SER	A	106	26.661	-3.026	-1.177	1.00	0.01
ATOM	921	O	SER	A	106	25.993	-2.427	-0.326	1.00	0.01
ATOM	922	N	VAL	A	107	26.547	-4.326	-1.403	1.00	0.01
ATOM	924	CA	VAL	A	107	25.393	-5.106	-0.926	1.00	0.01
ATOM	925	CB	VAL	A	107	25.402	-6.429	-1.689	1.00	0.37
ATOM	926	CG1	VAL	A	107	24.244	-7.339	-1.287	1.00	0.53
ATOM	927	CG2	VAL	A	107	25.369	-6.171	-3.191	1.00	0.37
ATOM	928	C	VAL	A	107	25.391	-5.361	0.589	1.00	0.01
ATOM	929	O	VAL	A	107	24.304	-5.492	1.162	1.00	0.01
ATOM	930	N	THR	A	108	26.506	-5.109	1.255	1.00	0.02
ATOM	932	CA	THR	A	108	26.545	-5.286	2.706	1.00	0.01
ATOM	933	CB	THR	A	108	28.003	-5.413	3.133	1.00	0.00
ATOM	934	OG1	THR	A	108	28.524	-6.614	2.573	1.00	0.01
ATOM	935	CG2	THR	A	108	28.144	-5.507	4.645	1.00	0.01

ATOM	936	C	THR	A	108	25.891	-4.079	3.374	1.00	0.01
ATOM	937	O	THR	A	108	24.945	-4.252	4.154	1.00	0.00
ATOM	938	N	LYS	A	109	26.119	-2.925	2.767	1.00	0.01
ATOM	940	CA	LYS	A	109	25.517	-1.675	3.238	1.00	0.01
ATOM	941	CB	LYS	A	109	26.307	-0.543	2.601	1.00	0.10
ATOM	942	CG	LYS	A	109	25.738	0.831	2.919	1.00	0.14
ATOM	943	CD	LYS	A	109	26.456	1.893	2.098	1.00	0.38
ATOM	944	CE	LYS	A	109	26.342	1.577	0.611	1.00	1.01
ATOM	945	NZ	LYS	A	109	27.041	2.585	-0.201	1.00	1.35
ATOM	946	C	LYS	A	109	24.061	-1.567	2.799	1.00	0.01
ATOM	947	O	LYS	A	109	23.203	-1.164	3.596	1.00	0.01
ATOM	948	N	THR	A	110	23.758	-2.201	1.678	1.00	0.01
ATOM	950	CA	THR	A	110	22.396	-2.187	1.145	1.00	0.00
ATOM	951	CB	THR	A	110	22.447	-2.650	-0.307	1.00	0.09
ATOM	952	OG1	THR	A	110	23.256	-1.733	-1.031	1.00	0.10
ATOM	953	CG2	THR	A	110	21.064	-2.670	-0.949	1.00	0.15
ATOM	954	C	THR	A	110	21.466	-3.093	1.945	1.00	0.01
ATOM	955	O	THR	A	110	20.337	-2.678	2.241	1.00	0.01
ATOM	956	N	GLN	A	111	22.002	-4.168	2.504	1.00	0.01
ATOM	958	CA	GLN	A	111	21.181	-5.033	3.350	1.00	0.00
ATOM	959	CB	GLN	A	111	21.872	-6.371	3.549	1.00	0.18
ATOM	960	CG	GLN	A	111	21.854	-7.232	2.297	1.00	0.37
ATOM	961	CD	GLN	A	111	22.526	-8.554	2.636	1.00	0.89
ATOM	962	OE1	GLN	A	111	23.234	-8.651	3.648	1.00	1.44
ATOM	963	NE2	GLN	A	111	22.246	-9.572	1.842	1.00	1.73
ATOM	966	C	GLN	A	111	20.952	-4.409	4.714	1.00	0.01
ATOM	967	O	GLN	A	111	19.821	-4.458	5.211	1.00	0.01
ATOM	968	N	ILE	A	112	21.915	-3.630	5.179	1.00	0.01
ATOM	970	CA	ILE	A	112	21.757	-2.939	6.459	1.00	0.00
ATOM	971	CB	ILE	A	112	23.092	-2.316	6.844	1.00	0.01
ATOM	972	CG2	ILE	A	112	22.932	-1.466	8.094	1.00	0.01
ATOM	973	CG1	ILE	A	112	24.156	-3.385	7.060	1.00	0.01
ATOM	974	CD1	ILE	A	112	25.506	-2.767	7.404	1.00	0.01
ATOM	975	C	ILE	A	112	20.698	-1.846	6.371	1.00	0.00
ATOM	976	O	ILE	A	112	19.735	-1.868	7.152	1.00	0.01
ATOM	977	N	LEU	A	113	20.717	-1.103	5.277	1.00	0.01
ATOM	979	CA	LEU	A	113	19.765	-0.004	5.119	1.00	0.01
ATOM	980	CB	LEU	A	113	20.218	0.869	3.959	1.00	0.01
ATOM	981	CG	LEU	A	113	21.566	1.512	4.267	1.00	0.01
ATOM	982	CD1	LEU	A	113	22.129	2.218	3.041	1.00	0.01
ATOM	983	CD2	LEU	A	113	21.471	2.468	5.452	1.00	0.01
ATOM	984	C	LEU	A	113	18.348	-0.507	4.883	1.00	0.01
ATOM	985	O	LEU	A	113	17.476	-0.187	5.702	1.00	0.01
ATOM	986	N	GLN	A	114	18.193	-1.516	4.040	1.00	0.01
ATOM	988	CA	GLN	A	114	16.849	-2.042	3.757	1.00	0.01
ATOM	989	CB	GLN	A	114	16.906	-2.855	2.468	1.00	0.08
ATOM	990	CG	GLN	A	114	17.175	-1.980	1.243	1.00	0.98
ATOM	991	CD	GLN	A	114	15.896	-1.331	0.705	1.00	1.17
ATOM	992	OE1	GLN	A	114	14.925	-1.088	1.431	1.00	0.48
ATOM	993	NE2	GLN	A	114	15.902	-1.091	-0.596	1.00	2.23
ATOM	996	C	GLN	A	114	16.290	-2.901	4.897	1.00	0.01
ATOM	997	O	GLN	A	114	15.081	-2.841	5.146	1.00	0.01
ATOM	998	N	GLY	A	115	17.167	-3.418	5.744	1.00	0.01
ATOM	1000	CA	GLY	A	115	16.750	-4.161	6.941	1.00	0.01
ATOM	1001	C	GLY	A	115	16.228	-3.226	8.030	1.00	0.01
ATOM	1002	O	GLY	A	115	15.375	-3.613	8.837	1.00	0.01
ATOM	1003	N	LEU	A	116	16.724	-1.997	8.030	1.00	0.00
ATOM	1005	CA	LEU	A	116	16.217	-0.954	8.933	1.00	0.00

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ATOM	1006	CB	LEU	A	116	17.330	0.055	9.176	1.00	0.01
ATOM	1007	CG	LEU	A	116	18.543	-0.556	9.859	1.00	0.01
ATOM	1008	CD1	LEU	A	116	19.679	0.460	9.928	1.00	0.01
ATOM	1009	CD2	LEU	A	116	18.183	-1.064	11.249	1.00	0.01
ATOM	1010	C	LEU	A	116	15.011	-0.197	8.360	1.00	0.00
ATOM	1011	O	LEU	A	116	14.511	0.734	9.004	1.00	0.00
ATOM	1012	N	GLY	A	117	14.620	-0.516	7.136	1.00	0.01
ATOM	1014	CA	GLY	A	117	13.451	0.115	6.517	1.00	0.00
ATOM	1015	C	GLY	A	117	13.831	1.183	5.497	1.00	0.00
ATOM	1016	O	GLY	A	117	12.957	1.814	4.890	1.00	0.01
ATOM	1017	N	PHE	A	118	15.121	1.368	5.286	1.00	0.00
ATOM	1019	CA	PHE	A	118	15.586	2.450	4.416	1.00	0.00
ATOM	1020	CB	PHE	A	118	16.933	2.952	4.908	1.00	0.01
ATOM	1021	CG	PHE	A	118	16.806	3.634	6.262	1.00	0.01
ATOM	1022	CD1	PHE	A	118	16.182	4.872	6.344	1.00	0.00
ATOM	1023	CE1	PHE	A	118	16.039	5.498	7.574	1.00	0.00
ATOM	1024	CZ	PHE	A	118	16.517	4.885	8.723	1.00	0.01
ATOM	1025	CE2	PHE	A	118	17.143	3.648	8.640	1.00	0.01
ATOM	1026	CD2	PHE	A	118	17.289	3.023	7.410	1.00	0.01
ATOM	1027	C	PHE	A	118	15.643	2.029	2.958	1.00	0.01
ATOM	1028	O	PHE	A	118	16.641	1.497	2.448	1.00	0.00
ATOM	1029	N	ASN	A	119	14.538	2.332	2.302	1.00	0.01
ATOM	1031	CA	ASN	A	119	14.351	2.050	0.884	1.00	0.00
ATOM	1032	CB	ASN	A	119	12.865	2.195	0.593	1.00	0.01
ATOM	1033	CG	ASN	A	119	12.593	1.896	-0.871	1.00	0.01
ATOM	1034	OD1	ASN	A	119	12.727	2.781	-1.726	1.00	0.00
ATOM	1035	ND2	ASN	A	119	12.292	0.642	-1.155	1.00	0.00
ATOM	1038	C	ASN	A	119	15.162	2.997	0.007	1.00	0.00
ATOM	1039	O	ASN	A	119	14.742	4.127	-0.281	1.00	0.01
ATOM	1040	N	LEU	A	120	16.152	2.409	-0.642	1.00	0.00
ATOM	1042	CA	LEU	A	120	17.113	3.144	-1.480	1.00	0.00
ATOM	1043	CB	LEU	A	120	18.373	2.294	-1.585	1.00	0.01
ATOM	1044	CG	LEU	A	120	18.987	2.053	-0.209	1.00	0.00
ATOM	1045	CD1	LEU	A	120	20.142	1.062	-0.290	1.00	0.00
ATOM	1046	CD2	LEU	A	120	19.439	3.363	0.430	1.00	0.01
ATOM	1047	C	LEU	A	120	16.621	3.502	-2.889	1.00	0.01
ATOM	1048	O	LEU	A	120	17.432	3.878	-3.742	1.00	0.01
ATOM	1049	N	THR	A	121	15.343	3.312	-3.176	1.00	0.01
ATOM	1051	CA	THR	A	121	14.820	3.787	-4.454	1.00	0.00
ATOM	1052	CB	THR	A	121	13.901	2.756	-5.098	1.00	0.00
ATOM	1053	OG1	THR	A	121	12.623	2.809	-4.484	1.00	0.01
ATOM	1054	CG2	THR	A	121	14.462	1.342	-4.991	1.00	0.01
ATOM	1055	C	THR	A	121	14.079	5.104	-4.233	1.00	0.01
ATOM	1056	O	THR	A	121	13.539	5.682	-5.182	1.00	0.00
ATOM	1057	N	HIS	A	122	13.997	5.525	-2.980	1.00	0.01
ATOM	1059	CA	HIS	A	122	13.428	6.835	-2.669	1.00	0.01
ATOM	1060	CB	HIS	A	122	12.089	6.647	-1.963	1.00	0.29
ATOM	1061	CG	HIS	A	122	11.014	5.994	-2.808	1.00	0.30
ATOM	1062	ND1	HIS	A	122	10.628	4.704	-2.763	1.00	1.03
ATOM	1064	CE1	HIS	A	122	9.642	4.505	-3.661	1.00	0.88
ATOM	1065	NE2	HIS	A	122	9.411	5.682	-4.286	1.00	0.56
ATOM	1066	CD2	HIS	A	122	10.249	6.610	-3.771	1.00	0.88
ATOM	1067	C	HIS	A	122	14.354	7.643	-1.765	1.00	0.00
ATOM	1068	O	HIS	A	122	14.502	8.859	-1.949	1.00	0.01
ATOM	1069	N	THR	A	123	14.987	6.970	-0.818	1.00	0.00
ATOM	1071	CA	THR	A	123	15.788	7.677	0.191	1.00	0.01
ATOM	1072	CB	THR	A	123	15.631	6.987	1.549	1.00	0.59
ATOM	1073	OG1	THR	A	123	16.236	5.700	1.515	1.00	1.04

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ATOM	1074	CG2	THR	A	123	14.166	6.821	1.939	1.00	0.99
ATOM	1075	C	THR	A	123	17.270	7.773	-0.171	1.00	0.00
ATOM	1076	O	THR	A	123	17.948	6.768	-0.415	1.00	0.00
ATOM	1077	N	PRO	A	124	17.754	9.003	-0.197	1.00	0.01
ATOM	1078	CA	PRO	A	124	19.196	9.259	-0.178	1.00	0.00
ATOM	1079	CB	PRO	A	124	19.325	10.729	-0.438	1.00	0.01
ATOM	1080	CG	PRO	A	124	17.953	11.375	-0.308	1.00	0.01
ATOM	1081	CD	PRO	A	124	16.977	10.237	-0.053	1.00	0.01
ATOM	1082	C	PRO	A	124	19.803	8.894	1.177	1.00	0.01
ATOM	1083	O	PRO	A	124	19.255	9.238	2.234	1.00	0.01
ATOM	1084	N	GLU	A	125	21.035	8.412	1.136	1.00	0.01
ATOM	1086	CA	GLU	A	125	21.718	7.981	2.366	1.00	0.00
ATOM	1087	CB	GLU	A	125	22.887	7.071	2.009	1.00	0.00
ATOM	1088	CG	GLU	A	125	22.398	5.759	1.407	1.00	0.01
ATOM	1089	CD	GLU	A	125	23.581	4.845	1.106	1.00	0.01
ATOM	1090	OE1	GLU	A	125	24.620	5.042	1.720	1.00	0.01
ATOM	1091	OE2	GLU	A	125	23.455	4.043	0.191	1.00	0.01
ATOM	1092	C	GLU	A	125	22.215	9.141	3.231	1.00	0.01
ATOM	1093	O	GLU	A	125	22.304	8.970	4.451	1.00	0.01
ATOM	1094	N	SER	A	126	22.222	10.346	2.683	1.00	0.01
ATOM	1096	CA	SER	A	126	22.599	11.526	3.473	1.00	0.01
ATOM	1097	CB	SER	A	126	22.978	12.656	2.523	1.00	0.17
ATOM	1098	OG	SER	A	126	21.811	13.035	1.805	1.00	0.54
ATOM	1099	C	SER	A	126	21.460	11.996	4.384	1.00	0.01
ATOM	1100	O	SER	A	126	21.710	12.718	5.358	1.00	0.01
ATOM	1101	N	ALA	A	127	20.253	11.509	4.143	1.00	0.00
ATOM	1103	CA	ALA	A	127	19.143	11.802	5.044	1.00	0.01
ATOM	1104	CB	ALA	A	127	17.859	11.898	4.228	1.00	0.11
ATOM	1105	C	ALA	A	127	19.023	10.688	6.077	1.00	0.01
ATOM	1106	O	ALA	A	127	18.841	10.972	7.265	1.00	0.01
ATOM	1107	N	ILE	A	128	19.457	9.504	5.678	1.00	0.01
ATOM	1109	CA	ILE	A	128	19.417	8.335	6.561	1.00	0.01
ATOM	1110	CB	ILE	A	128	19.720	7.113	5.701	1.00	0.01
ATOM	1111	CG2	ILE	A	128	19.813	5.854	6.554	1.00	0.01
ATOM	1112	CG1	ILE	A	128	18.673	6.954	4.605	1.00	0.01
ATOM	1113	CD1	ILE	A	128	18.998	5.776	3.693	1.00	0.01
ATOM	1114	C	ILE	A	128	20.457	8.442	7.670	1.00	0.00
ATOM	1115	O	ILE	A	128	20.121	8.299	8.854	1.00	0.01
ATOM	1116	N	HIS	A	129	21.625	8.948	7.311	1.00	0.00
ATOM	1118	CA	HIS	A	129	22.695	9.088	8.292	1.00	0.01
ATOM	1119	CB	HIS	A	129	24.020	9.140	7.544	1.00	0.01
ATOM	1120	CG	HIS	A	129	24.348	7.770	6.990	1.00	0.00
ATOM	1121	ND1	HIS	A	129	24.406	6.646	7.719	1.00	0.01
ATOM	1123	CE1	HIS	A	129	24.704	5.605	6.914	1.00	0.01
ATOM	1124	NE2	HIS	A	129	24.842	6.088	5.659	1.00	0.01
ATOM	1125	CD2	HIS	A	129	24.631	7.425	5.690	1.00	0.00
ATOM	1126	C	HIS	A	129	22.490	10.286	9.208	1.00	0.01
ATOM	1127	O	HIS	A	129	22.551	10.086	10.429	1.00	0.01
ATOM	1128	N	GLN	A	130	21.884	11.347	8.692	1.00	0.00
ATOM	1130	CA	GLN	A	130	21.584	12.495	9.554	1.00	0.01
ATOM	1131	CB	GLN	A	130	21.345	13.744	8.723	1.00	0.17
ATOM	1132	CG	GLN	A	130	22.630	14.305	8.135	1.00	0.98
ATOM	1133	CD	GLN	A	130	22.347	15.685	7.550	1.00	1.72
ATOM	1134	OE1	GLN	A	130	22.530	16.708	8.220	1.00	2.37
ATOM	1135	NE2	GLN	A	130	21.885	15.698	6.313	1.00	2.56
ATOM	1138	C	GLN	A	130	20.372	12.251	10.448	1.00	0.01
ATOM	1139	O	GLN	A	130	20.352	12.767	11.570	1.00	0.00
ATOM	1140	N	GLY	A	131	19.527	11.301	10.080	1.00	0.01

ATOM	1142	CA	GLY	A	131	18.427	10.871	10.943	1.00	0.01
ATOM	1143	C	GLY	A	131	18.960	10.364	12.275	1.00	0.01
ATOM	1144	O	GLY	A	131	18.723	10.998	13.315	1.00	0.01
ATOM	1145	N	PHE	A	132	19.895	9.429	12.203	1.00	0.01
ATOM	1147	CA	PHE	A	132	20.463	8.857	13.427	1.00	0.01
ATOM	1148	CB	PHE	A	132	21.059	7.497	13.110	1.00	0.01
ATOM	1149	CG	PHE	A	132	19.987	6.504	12.696	1.00	0.01
ATOM	1150	CD1	PHE	A	132	18.916	6.253	13.543	1.00	0.01
ATOM	1151	CE1	PHE	A	132	17.930	5.353	13.166	1.00	0.01
ATOM	1152	CZ	PHE	A	132	18.018	4.704	11.942	1.00	0.01
ATOM	1153	CE2	PHE	A	132	19.088	4.957	11.095	1.00	0.01
ATOM	1154	CD2	PHE	A	132	20.071	5.861	11.470	1.00	0.01
ATOM	1155	C	PHE	A	132	21.504	9.756	14.083	1.00	0.01
ATOM	1156	O	PHE	A	132	21.634	9.705	15.310	1.00	0.01
ATOM	1157	N	GLN	A	133	22.021	10.734	13.358	1.00	0.00
ATOM	1159	CA	GLN	A	133	22.907	11.715	13.988	1.00	0.01
ATOM	1160	CB	GLN	A	133	23.676	12.464	12.912	1.00	0.01
ATOM	1161	CG	GLN	A	133	24.601	11.545	12.125	1.00	0.01
ATOM	1162	CD	GLN	A	133	25.235	12.362	11.008	1.00	0.01
ATOM	1163	OE1	GLN	A	133	25.151	12.017	9.820	1.00	0.00
ATOM	1164	NE2	GLN	A	133	25.763	13.506	11.403	1.00	0.00
ATOM	1167	C	GLN	A	133	22.132	12.726	14.832	1.00	0.01
ATOM	1168	O	GLN	A	133	22.580	13.036	15.942	1.00	0.01
ATOM	1169	N	HIS	A	134	20.896	13.025	14.459	1.00	0.01
ATOM	1171	CA	HIS	A	134	20.097	13.966	15.263	1.00	0.01
ATOM	1172	CB	HIS	A	134	18.982	14.624	14.460	1.00	0.18
ATOM	1173	CG	HIS	A	134	19.312	15.245	13.125	1.00	0.86
ATOM	1174	ND1	HIS	A	134	18.393	15.644	12.235	1.00	1.74
ATOM	1176	CE1	HIS	A	134	19.018	16.128	11.144	1.00	2.27
ATOM	1177	NE2	HIS	A	134	20.344	16.050	11.364	1.00	2.14
ATOM	1178	CD2	HIS	A	134	20.545	15.536	12.597	1.00	1.59
ATOM	1179	C	HIS	A	134	19.412	13.225	16.393	1.00	0.01
ATOM	1180	O	HIS	A	134	19.141	13.801	17.454	1.00	0.01
ATOM	1181	N	LEU	A	135	19.310	11.920	16.226	1.00	0.01
ATOM	1183	CA	LEU	A	135	18.802	11.066	17.292	1.00	0.01
ATOM	1184	CB	LEU	A	135	18.447	9.732	16.655	1.00	0.01
ATOM	1185	CG	LEU	A	135	17.628	8.844	17.574	1.00	0.01
ATOM	1186	CD1	LEU	A	135	16.426	9.600	18.133	1.00	0.01
ATOM	1187	CD2	LEU	A	135	17.182	7.601	16.813	1.00	0.01
ATOM	1188	C	LEU	A	135	19.875	10.912	18.369	1.00	0.01
ATOM	1189	O	LEU	A	135	19.565	11.061	19.557	1.00	0.01
ATOM	1190	N	VAL	A	136	21.129	10.952	17.944	1.00	0.01
ATOM	1192	CA	VAL	A	136	22.252	11.007	18.884	1.00	0.01
ATOM	1193	CB	VAL	A	136	23.538	10.706	18.115	1.00	0.27
ATOM	1194	CG1	VAL	A	136	24.779	11.158	18.874	1.00	0.79
ATOM	1195	CG2	VAL	A	136	23.631	9.230	17.746	1.00	0.30
ATOM	1196	C	VAL	A	136	22.357	12.377	19.558	1.00	0.00
ATOM	1197	O	VAL	A	136	22.491	12.418	20.786	1.00	0.01
ATOM	1198	N	HIS	A	137	22.011	13.439	18.844	1.00	0.01
ATOM	1200	CA	HIS	A	137	22.037	14.787	19.436	1.00	0.02
ATOM	1201	CB	HIS	A	137	21.806	15.838	18.348	1.00	0.16
ATOM	1202	CG	HIS	A	137	22.837	15.906	17.234	1.00	0.20
ATOM	1203	ND1	HIS	A	137	22.648	16.421	16.003	1.00	0.23
ATOM	1205	CE1	HIS	A	137	23.784	16.303	15.288	1.00	0.21
ATOM	1206	NE2	HIS	A	137	24.709	15.722	16.085	1.00	0.23
ATOM	1207	CD2	HIS	A	137	24.145	15.483	17.290	1.00	0.25
ATOM	1208	C	HIS	A	137	20.950	14.950	20.499	1.00	0.01
ATOM	1209	O	HIS	A	137	21.257	15.358	21.627	1.00	0.01

ATOM	1210	N	SER	A	138	19.784	14.376	20.239	1.00	0.01
ATOM	1212	CA	SER	A	138	18.665	14.459	21.191	1.00	0.01
ATOM	1213	CB	SER	A	138	17.355	14.205	20.449	1.00	0.30
ATOM	1214	OG	SER	A	138	17.373	12.882	19.930	1.00	0.53
ATOM	1215	C	SER	A	138	18.799	13.466	22.348	1.00	0.01
ATOM	1216	O	SER	A	138	18.125	13.616	23.375	1.00	0.00
ATOM	1217	N	LEU	A	139	19.717	12.523	22.225	1.00	0.01
ATOM	1219	CA	LEU	A	139	20.031	11.612	23.325	1.00	0.01
ATOM	1220	CB	LEU	A	139	20.118	10.188	22.797	1.00	0.01
ATOM	1221	CG	LEU	A	139	18.756	9.706	22.308	1.00	0.00
ATOM	1222	CD1	LEU	A	139	18.857	8.310	21.708	1.00	0.01
ATOM	1223	CD2	LEU	A	139	17.723	9.741	23.431	1.00	0.01
ATOM	1224	C	LEU	A	139	21.327	11.991	24.045	1.00	0.01
ATOM	1225	O	LEU	A	139	21.830	11.202	24.853	1.00	0.01
ATOM	1226	N	THR	A	140	21.881	13.152	23.737	1.00	0.01
ATOM	1228	CA	THR	A	140	23.071	13.626	24.453	1.00	0.01
ATOM	1229	CB	THR	A	140	24.276	13.631	23.517	1.00	0.52
ATOM	1230	OG1	THR	A	140	23.934	14.391	22.365	1.00	1.05
ATOM	1231	CG2	THR	A	140	24.672	12.227	23.071	1.00	0.85
ATOM	1232	C	THR	A	140	22.886	15.029	25.026	1.00	0.01
ATOM	1233	O	THR	A	140	23.881	15.742	25.199	1.00	0.01
ATOM	1234	N	VAL	A	141	21.650	15.419	25.304	1.00	0.02
ATOM	1236	CA	VAL	A	141	21.356	16.781	25.793	1.00	0.01
ATOM	1237	CB	VAL	A	141	19.842	16.978	25.741	1.00	0.79
ATOM	1238	CG1	VAL	A	141	19.440	18.380	26.189	1.00	1.02
ATOM	1239	CG2	VAL	A	141	19.312	16.707	24.338	1.00	0.94
ATOM	1240	C	VAL	A	141	21.861	17.027	27.220	1.00	0.01
ATOM	1241	O	VAL	A	141	21.240	16.603	28.202	1.00	0.01
ATOM	1242	N	PRO	A	142	22.865	17.887	27.325	1.00	0.01
ATOM	1243	CA	PRO	A	142	23.559	18.090	28.603	1.00	0.02
ATOM	1244	CB	PRO	A	142	24.852	18.745	28.224	1.00	0.01
ATOM	1245	CG	PRO	A	142	24.793	19.171	26.763	1.00	0.01
ATOM	1246	CD	PRO	A	142	23.476	18.639	26.223	1.00	0.02
ATOM	1247	C	PRO	A	142	22.794	18.975	29.594	1.00	0.01
ATOM	1248	O	PRO	A	142	22.973	18.832	30.808	1.00	0.02
ATOM	1249	N	SER	A	143	21.846	19.756	29.097	1.00	0.01
ATOM	1251	CA	SER	A	143	21.070	20.655	29.962	1.00	0.02
ATOM	1252	CB	SER	A	143	20.710	21.911	29.179	1.00	1.07
ATOM	1253	OG	SER	A	143	19.787	21.539	28.164	1.00	1.15
ATOM	1254	C	SER	A	143	19.786	19.997	30.459	1.00	0.01
ATOM	1255	O	SER	A	143	19.067	20.572	31.283	1.00	0.02
ATOM	1256	N	LYS	A	144	19.510	18.806	29.956	1.00	0.01
ATOM	1258	CA	LYS	A	144	18.340	18.042	30.382	1.00	0.02
ATOM	1259	CB	LYS	A	144	17.101	18.505	29.620	1.00	0.39
ATOM	1260	CG	LYS	A	144	15.850	17.808	30.147	1.00	0.73
ATOM	1261	CD	LYS	A	144	15.693	18.028	31.649	1.00	0.88
ATOM	1262	CE	LYS	A	144	14.516	17.238	32.208	1.00	1.90
ATOM	1263	NZ	LYS	A	144	14.372	17.446	33.657	1.00	2.56
ATOM	1264	C	LYS	A	144	18.625	16.575	30.111	1.00	0.01
ATOM	1265	O	LYS	A	144	18.213	16.009	29.089	1.00	0.02
ATOM	1266	N	ASP	A	145	19.330	15.963	31.045	1.00	0.01
ATOM	1268	CA	ASP	A	145	19.767	14.583	30.849	1.00	0.00
ATOM	1269	CB	ASP	A	145	21.057	14.363	31.629	1.00	0.63
ATOM	1270	CG	ASP	A	145	21.709	13.068	31.158	1.00	1.02
ATOM	1271	OD1	ASP	A	145	22.537	12.543	31.886	1.00	1.80
ATOM	1272	OD2	ASP	A	145	21.406	12.669	30.041	1.00	0.62
ATOM	1273	C	ASP	A	145	18.703	13.568	31.272	1.00	0.01
ATOM	1274	O	ASP	A	145	18.729	13.027	32.381	1.00	0.01

ATOM	1275	N	LEU	A	146	17.768	13.333	30.364	1.00	0.01
ATOM	1277	CA	LEU	A	146	16.796	12.240	30.509	1.00	0.02
ATOM	1278	CB	LEU	A	146	15.424	12.731	30.037	1.00	0.01
ATOM	1279	CG	LEU	A	146	14.351	11.649	30.160	1.00	0.01
ATOM	1280	CD1	LEU	A	146	14.209	11.160	31.599	1.00	0.01
ATOM	1281	CD2	LEU	A	146	13.007	12.109	29.612	1.00	0.01
ATOM	1282	C	LEU	A	146	17.253	11.058	29.650	1.00	0.02
ATOM	1283	O	LEU	A	146	16.750	9.934	29.763	1.00	0.01
ATOM	1284	N	THR	A	147	18.323	11.305	28.915	1.00	0.00
ATOM	1286	CA	THR	A	147	18.804	10.382	27.894	1.00	0.01
ATOM	1287	CB	THR	A	147	19.914	11.089	27.153	1.00	2.66
ATOM	1288	OG1	THR	A	147	21.122	10.931	27.882	1.00	3.01
ATOM	1289	CG2	THR	A	147	19.599	12.574	27.002	1.00	3.30
ATOM	1290	C	THR	A	147	19.313	9.064	28.460	1.00	0.01
ATOM	1291	O	THR	A	147	19.523	8.894	29.666	1.00	0.01
ATOM	1292	N	LEU	A	148	19.478	8.131	27.543	1.00	0.01
ATOM	1294	CA	LEU	A	148	19.785	6.740	27.901	1.00	0.00
ATOM	1295	CB	LEU	A	148	19.422	5.797	26.747	1.00	0.01
ATOM	1296	CG	LEU	A	148	17.933	5.672	26.394	1.00	0.01
ATOM	1297	CD1	LEU	A	148	17.000	6.009	27.550	1.00	0.00
ATOM	1298	CD2	LEU	A	148	17.554	6.469	25.149	1.00	0.01
ATOM	1299	C	LEU	A	148	21.263	6.540	28.222	1.00	0.01
ATOM	1300	O	LEU	A	148	22.140	7.211	27.660	1.00	0.02
ATOM	1301	N	LYS	A	149	21.526	5.577	29.090	1.00	0.01
ATOM	1303	CA	LYS	A	149	22.899	5.138	29.373	1.00	0.01
ATOM	1304	CB	LYS	A	149	22.989	4.568	30.784	1.00	0.59
ATOM	1305	CG	LYS	A	149	22.743	5.637	31.840	1.00	0.67
ATOM	1306	CD	LYS	A	149	22.935	5.064	33.239	1.00	0.79
ATOM	1307	CE	LYS	A	149	24.323	4.451	33.397	1.00	0.79
ATOM	1308	NZ	LYS	A	149	24.486	3.849	34.730	1.00	1.03
ATOM	1309	C	LYS	A	149	23.310	4.070	28.367	1.00	0.01
ATOM	1310	O	LYS	A	149	23.169	2.862	28.605	1.00	0.01
ATOM	1311	N	MET	A	150	23.712	4.541	27.201	1.00	0.01
ATOM	1313	CA	MET	A	150	24.103	3.652	26.110	1.00	0.02
ATOM	1314	CB	MET	A	150	23.980	4.407	24.794	1.00	0.87
ATOM	1315	CG	MET	A	150	22.548	4.877	24.562	1.00	1.11
ATOM	1316	SD	MET	A	150	22.254	5.732	22.997	1.00	2.15
ATOM	1317	CE	MET	A	150	22.722	4.406	21.860	1.00	2.30
ATOM	1318	C	MET	A	150	25.525	3.136	26.285	1.00	0.01
ATOM	1319	O	MET	A	150	26.345	3.715	27.004	1.00	0.02
ATOM	1320	N	GLY	A	151	25.762	1.986	25.684	1.00	0.01
ATOM	1322	CA	GLY	A	151	27.084	1.360	25.688	1.00	0.02
ATOM	1323	C	GLY	A	151	27.333	0.658	24.358	1.00	0.01
ATOM	1324	O	GLY	A	151	27.128	-0.558	24.235	1.00	0.01
ATOM	1325	N	SER	A	152	27.756	1.424	23.366	1.00	0.02
ATOM	1327	CA	SER	A	152	27.965	0.840	22.037	1.00	0.01
ATOM	1328	CB	SER	A	152	27.031	1.518	21.042	1.00	0.59
ATOM	1329	OG	SER	A	152	26.747	0.584	20.003	1.00	1.14
ATOM	1330	C	SER	A	152	29.430	0.954	21.604	1.00	0.01
ATOM	1331	O	SER	A	152	29.998	2.051	21.483	1.00	0.01
ATOM	1332	N	ALA	A	153	30.002	-0.201	21.312	1.00	0.01
ATOM	1334	CA	ALA	A	153	31.434	-0.285	21.014	1.00	0.01
ATOM	1335	CB	ALA	A	153	32.184	-0.564	22.308	1.00	0.16
ATOM	1336	C	ALA	A	153	31.785	-1.353	19.982	1.00	0.01
ATOM	1337	O	ALA	A	153	31.344	-2.509	20.054	1.00	0.01
ATOM	1338	N	LEU	A	154	32.661	-0.952	19.079	1.00	0.01
ATOM	1340	CA	LEU	A	154	33.177	-1.833	18.032	1.00	0.02
ATOM	1341	CB	LEU	A	154	33.318	-1.043	16.738	1.00	0.02

ATOM	1342	CG	LEU	A	154	31.967	-0.608	16.192	1.00	0.02
ATOM	1343	CD1	LEU	A	154	32.149	0.287	14.974	1.00	0.02
ATOM	1344	CD2	LEU	A	154	31.112	-1.821	15.843	1.00	0.01
ATOM	1345	C	LEU	A	154	34.545	-2.373	18.419	1.00	0.02
ATOM	1346	O	LEU	A	154	35.547	-1.646	18.423	1.00	0.02
ATOM	1347	N	PHE	A	155	34.580	-3.660	18.697	1.00	0.01
ATOM	1349	CA	PHE	A	155	35.833	-4.328	19.045	1.00	0.01
ATOM	1350	CB	PHE	A	155	35.588	-5.319	20.177	1.00	0.02
ATOM	1351	CG	PHE	A	155	35.233	-4.669	21.513	1.00	0.02
ATOM	1352	CD1	PHE	A	155	33.905	-4.509	21.891	1.00	0.01
ATOM	1353	CE1	PHE	A	155	33.595	-3.915	23.108	1.00	0.02
ATOM	1354	CZ	PHE	A	155	34.612	-3.487	23.951	1.00	0.02
ATOM	1355	CE2	PHE	A	155	35.938	-3.656	23.579	1.00	0.02
ATOM	1356	CD2	PHE	A	155	36.248	-4.248	22.362	1.00	0.01
ATOM	1357	C	PHE	A	155	36.396	-5.020	17.811	1.00	0.01
ATOM	1358	O	PHE	A	155	36.004	-6.140	17.456	1.00	0.01
ATOM	1359	N	VAL	A	156	37.292	-4.305	17.155	1.00	0.01
ATOM	1361	CA	VAL	A	156	37.900	-4.765	15.907	1.00	0.02
ATOM	1362	CB	VAL	A	156	38.348	-3.545	15.106	1.00	0.49
ATOM	1363	CG1	VAL	A	156	37.177	-2.605	14.855	1.00	0.60
ATOM	1364	CG2	VAL	A	156	39.465	-2.791	15.815	1.00	0.71
ATOM	1365	C	VAL	A	156	39.096	-5.655	16.208	1.00	0.02
ATOM	1366	O	VAL	A	156	39.663	-5.590	17.305	1.00	0.01
ATOM	1367	N	LYS	A	157	39.400	-6.547	15.284	1.00	0.01
ATOM	1369	CA	LYS	A	157	40.561	-7.422	15.450	1.00	0.01
ATOM	1370	CB	LYS	A	157	40.556	-8.448	14.320	1.00	0.81
ATOM	1371	CG	LYS	A	157	41.622	-9.520	14.506	1.00	0.87
ATOM	1372	CD	LYS	A	157	41.619	-	13.352	1.00	1.04
							10.513			
ATOM	1373	CE	LYS	A	157	42.711	-	13.538	1.00	0.96
							11.559			
ATOM	1374	NZ	LYS	A	157	44.032	-	13.638	1.00	2.10
							10.918			
ATOM	1375	C	LYS	A	157	41.862	-6.621	15.450	1.00	0.02
ATOM	1376	O	LYS	A	157	42.037	-5.658	14.691	1.00	0.02
ATOM	1377	N	LYS	A	158	42.687	-6.932	16.434	1.00	0.01
ATOM	1379	CA	LYS	A	158	44.031	-6.371	16.530	1.00	0.01
ATOM	1380	CB	LYS	A	158	44.706	-7.030	17.731	1.00	0.36
ATOM	1381	CG	LYS	A	158	46.081	-6.452	18.039	1.00	1.34
ATOM	1382	CD	LYS	A	158	46.724	-7.176	19.214	1.00	1.37
ATOM	1383	CE	LYS	A	158	48.116	-6.632	19.509	1.00	2.23
ATOM	1384	NZ	LYS	A	158	48.728	-7.342	20.642	1.00	2.98
ATOM	1385	C	LYS	A	158	44.818	-6.663	15.256	1.00	0.02
ATOM	1386	O	LYS	A	158	44.750	-7.769	14.708	1.00	0.02
ATOM	1387	N	GLU	A	159	45.458	-5.616	14.752	1.00	0.02
ATOM	1389	CA	GLU	A	159	46.337	-5.662	13.568	1.00	0.00
ATOM	1390	CB	GLU	A	159	47.312	-6.837	13.652	1.00	0.97
ATOM	1391	CG	GLU	A	159	48.235	-6.729	14.860	1.00	1.47
ATOM	1392	CD	GLU	A	159	49.069	-7.997	14.999	1.00	1.57
ATOM	1393	OE1	GLU	A	159	49.297	-8.396	16.135	1.00	2.13
ATOM	1394	OE2	GLU	A	159	49.515	-8.508	13.982	1.00	1.77
ATOM	1395	C	GLU	A	159	45.561	-5.739	12.255	1.00	0.01
ATOM	1396	O	GLU	A	159	45.933	-6.505	11.360	1.00	0.02
ATOM	1397	N	LEU	A	160	44.478	-4.986	12.163	1.00	0.02
ATOM	1399	CA	LEU	A	160	43.803	-4.808	10.872	1.00	0.02
ATOM	1400	CB	LEU	A	160	42.291	-4.800	11.054	1.00	0.02
ATOM	1401	CG	LEU	A	160	41.736	-6.146	11.496	1.00	0.01
ATOM	1402	CD1	LEU	A	160	40.224	-6.046	11.653	1.00	0.02

ATOM	1403	CD2	LEU	A	160	42.095	-7.249	10.506	1.00	0.00
ATOM	1404	C	LEU	A	160	44.218	-3.479	10.256	1.00	0.00
ATOM	1405	O	LEU	A	160	44.754	-2.605	10.950	1.00	0.02
ATOM	1406	N	GLN	A	161	43.941	-3.317	8.974	1.00	0.01
ATOM	1408	CA	GLN	A	161	44.189	-2.029	8.312	1.00	0.01
ATOM	1409	CB	GLN	A	161	44.562	-2.265	6.857	1.00	0.92
ATOM	1410	CG	GLN	A	161	46.073	-2.179	6.681	1.00	1.52
ATOM	1411	CD	GLN	A	161	46.526	-0.743	6.938	1.00	1.99
ATOM	1412	OE1	GLN	A	161	45.895	0.209	6.469	1.00	2.12
ATOM	1413	NE2	GLN	A	161	47.601	-0.601	7.694	1.00	2.59
ATOM	1416	C	GLN	A	161	42.978	-1.108	8.421	1.00	0.00
ATOM	1417	O	GLN	A	161	42.227	-0.902	7.459	1.00	0.00
ATOM	1418	N	LEU	A	162	42.846	-0.533	9.605	1.00	0.02
ATOM	1420	CA	LEU	A	162	41.713	0.327	9.948	1.00	0.00
ATOM	1421	CB	LEU	A	162	41.655	0.461	11.464	1.00	0.02
ATOM	1422	CG	LEU	A	162	41.484	-0.895	12.139	1.00	0.02
ATOM	1423	CD1	LEU	A	162	41.692	-0.783	13.644	1.00	0.01
ATOM	1424	CD2	LEU	A	162	40.125	-1.510	11.816	1.00	0.02
ATOM	1425	C	LEU	A	162	41.847	1.709	9.324	1.00	0.00
ATOM	1426	O	LEU	A	162	42.798	2.456	9.587	1.00	0.02
ATOM	1427	N	GLN	A	163	40.861	2.041	8.516	1.00	0.01
ATOM	1429	CA	GLN	A	163	40.834	3.337	7.847	1.00	0.00
ATOM	1430	CB	GLN	A	163	39.974	3.191	6.604	1.00	0.67
ATOM	1431	CG	GLN	A	163	40.562	2.109	5.706	1.00	1.20
ATOM	1432	CD	GLN	A	163	39.575	1.724	4.613	1.00	2.06
ATOM	1433	OE1	GLN	A	163	39.212	0.548	4.484	1.00	2.42
ATOM	1434	NE2	GLN	A	163	39.127	2.710	3.859	1.00	2.92
ATOM	1437	C	GLN	A	163	40.291	4.420	8.768	1.00	0.01
ATOM	1438	O	GLN	A	163	39.235	4.271	9.398	1.00	0.02
ATOM	1439	N	ALA	A	164	40.912	5.584	8.666	1.00	0.00
ATOM	1441	CA	ALA	A	164	40.567	6.716	9.535	1.00	0.02
ATOM	1442	CB	ALA	A	164	41.691	7.742	9.468	1.00	0.37
ATOM	1443	C	ALA	A	164	39.244	7.384	9.171	1.00	0.01
ATOM	1444	O	ALA	A	164	38.627	8.022	10.030	1.00	0.00
ATOM	1445	N	ASN	A	165	38.696	7.036	8.019	1.00	0.02
ATOM	1447	CA	ASN	A	165	37.393	7.564	7.624	1.00	0.02
ATOM	1448	CB	ASN	A	165	37.238	7.379	6.122	1.00	0.32
ATOM	1449	CG	ASN	A	165	38.369	8.106	5.408	1.00	1.12
ATOM	1450	OD1	ASN	A	165	39.322	7.482	4.925	1.00	1.77
ATOM	1451	ND2	ASN	A	165	38.285	9.425	5.425	1.00	2.08
ATOM	1454	C	ASN	A	165	36.271	6.831	8.344	1.00	0.01
ATOM	1455	O	ASN	A	165	35.347	7.484	8.842	1.00	0.02
ATOM	1456	N	PHE	A	166	36.494	5.563	8.654	1.00	0.02
ATOM	1458	CA	PHE	A	166	35.481	4.817	9.395	1.00	0.01
ATOM	1459	CB	PHE	A	166	35.696	3.326	9.201	1.00	0.02
ATOM	1460	CG	PHE	A	166	34.703	2.464	9.972	1.00	0.02
ATOM	1461	CD1	PHE	A	166	33.360	2.476	9.623	1.00	0.01
ATOM	1462	CE1	PHE	A	166	32.453	1.687	10.317	1.00	0.01
ATOM	1463	CZ	PHE	A	166	32.889	0.892	11.369	1.00	0.02
ATOM	1464	CE2	PHE	A	166	34.230	0.892	11.731	1.00	0.01
ATOM	1465	CD2	PHE	A	166	35.137	1.681	11.035	1.00	0.01
ATOM	1466	C	PHE	A	166	35.573	5.138	10.874	1.00	0.01
ATOM	1467	O	PHE	A	166	34.534	5.303	11.524	1.00	0.02
ATOM	1468	N	LEU	A	167	36.769	5.495	11.315	1.00	0.01
ATOM	1470	CA	LEU	A	167	36.960	5.888	12.712	1.00	0.02
ATOM	1471	CB	LEU	A	167	38.457	5.931	13.000	1.00	0.02
ATOM	1472	CG	LEU	A	167	39.122	4.585	12.726	1.00	0.02
ATOM	1473	CD1	LEU	A	167	40.639	4.684	12.848	1.00	0.01

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ATOM	1474	CD2	LEU	A	167	38.580	3.494	13.643	1.00	0.02
ATOM	1475	C	LEU	A	167	36.339	7.261	12.953	1.00	0.02
ATOM	1476	O	LEU	A	167	35.587	7.429	13.923	1.00	0.01
ATOM	1477	N	GLY	A	168	36.441	8.120	11.951	1.00	0.01
ATOM	1479	CA	GLY	A	168	35.776	9.427	11.965	1.00	0.01
ATOM	1480	C	GLY	A	168	34.261	9.276	12.052	1.00	0.01
ATOM	1481	O	GLY	A	168	33.673	9.677	13.063	1.00	0.01
ATOM	1482	N	ASN	A	169	33.691	8.508	11.136	1.00	0.02
ATOM	1484	CA	ASN	A	169	32.238	8.294	11.107	1.00	0.01
ATOM	1485	CB	ASN	A	169	31.922	7.334	9.965	1.00	0.23
ATOM	1486	CG	ASN	A	169	32.243	7.956	8.607	1.00	0.32
ATOM	1487	OD1	ASN	A	169	32.241	9.183	8.452	1.00	1.33
ATOM	1488	ND2	ASN	A	169	32.425	7.101	7.614	1.00	0.79
ATOM	1491	C	ASN	A	169	31.692	7.704	12.407	1.00	0.01
ATOM	1492	O	ASN	A	169	30.833	8.331	13.043	1.00	0.01
ATOM	1493	N	VAL	A	170	32.369	6.699	12.934	1.00	0.01
ATOM	1495	CA	VAL	A	170	31.893	6.039	14.149	1.00	0.01
ATOM	1496	CB	VAL	A	170	32.705	4.765	14.329	1.00	0.02
ATOM	1497	CG1	VAL	A	170	32.420	4.094	15.663	1.00	0.01
ATOM	1498	CG2	VAL	A	170	32.422	3.803	13.189	1.00	0.02
ATOM	1499	C	VAL	A	170	32.007	6.909	15.397	1.00	0.01
ATOM	1500	O	VAL	A	170	30.975	7.179	16.027	1.00	0.02
ATOM	1501	N	LYS	A	171	33.147	7.541	15.608	1.00	0.01
ATOM	1503	CA	LYS	A	171	33.345	8.264	16.867	1.00	0.01
ATOM	1504	CB	LYS	A	171	34.843	8.333	17.125	1.00	0.00
ATOM	1505	CG	LYS	A	171	35.458	6.940	17.120	1.00	0.02
ATOM	1506	CD	LYS	A	171	36.977	7.001	17.204	1.00	0.02
ATOM	1507	CE	LYS	A	171	37.580	5.606	17.105	1.00	0.02
ATOM	1508	NZ	LYS	A	171	39.050	5.655	17.129	1.00	0.02
ATOM	1509	C	LYS	A	171	32.773	9.677	16.841	1.00	0.01
ATOM	1510	O	LYS	A	171	32.098	10.082	17.793	1.00	0.01
ATOM	1511	N	ARG	A	172	32.835	10.316	15.688	1.00	0.01
ATOM	1513	CA	ARG	A	172	32.435	11.720	15.585	1.00	0.00
ATOM	1514	CB	ARG	A	172	33.397	12.362	14.591	1.00	0.23
ATOM	1515	CG	ARG	A	172	32.990	13.760	14.149	1.00	1.13
ATOM	1516	CD	ARG	A	172	33.933	14.237	13.052	1.00	1.10
ATOM	1517	NE	ARG	A	172	34.064	13.196	12.018	1.00	1.48
ATOM	1518	CZ	ARG	A	172	33.587	13.311	10.777	1.00	2.53
ATOM	1519	NH1	ARG	A	172	33.721	12.299	9.917	1.00	3.39
ATOM	1520	NH2	ARG	A	172	32.953	14.425	10.404	1.00	3.21
ATOM	1521	C	ARG	A	172	30.992	11.912	15.124	1.00	0.01
ATOM	1522	O	ARG	A	172	30.331	12.858	15.567	1.00	0.01
ATOM	1523	N	LEU	A	173	30.467	10.983	14.344	1.00	0.01
ATOM	1525	CA	LEU	A	173	29.098	11.161	13.854	1.00	0.01
ATOM	1526	CB	LEU	A	173	29.062	10.874	12.356	1.00	0.01
ATOM	1527	CG	LEU	A	173	29.977	11.809	11.572	1.00	0.02
ATOM	1528	CD1	LEU	A	173	30.030	11.409	10.102	1.00	0.01
ATOM	1529	CD2	LEU	A	173	29.540	13.263	11.717	1.00	0.01
ATOM	1530	C	LEU	A	173	28.103	10.255	14.571	1.00	0.01
ATOM	1531	O	LEU	A	173	26.901	10.546	14.576	1.00	0.02
ATOM	1532	N	TYR	A	174	28.592	9.176	15.160	1.00	0.01
ATOM	1534	CA	TYR	A	174	27.700	8.255	15.881	1.00	0.01
ATOM	1535	CB	TYR	A	174	27.665	6.919	15.148	1.00	0.01
ATOM	1536	CG	TYR	A	174	26.771	6.904	13.912	1.00	0.01
ATOM	1537	CD1	TYR	A	174	27.282	7.217	12.659	1.00	0.01
ATOM	1538	CE1	TYR	A	174	26.452	7.192	11.547	1.00	0.00
ATOM	1539	CZ	TYR	A	174	25.114	6.850	11.688	1.00	0.01
ATOM	1540	OH	TYR	A	174	24.338	6.654	10.568	1.00	0.01

ATOM	1541	CE2	TYR	A	174	24.599	6.548	12.940	1.00	0.01
ATOM	1542	CD2	TYR	A	174	25.429	6.576	14.052	1.00	0.01
ATOM	1543	C	TYR	A	174	28.088	8.028	17.342	1.00	0.01
ATOM	1544	O	TYR	A	174	27.429	7.233	18.025	1.00	0.01
ATOM	1545	N	GLU	A	175	29.085	8.764	17.816	1.00	0.02
ATOM	1547	CA	GLU	A	175	29.666	8.641	19.175	1.00	0.01
ATOM	1548	CB	GLU	A	175	28.893	9.507	20.187	1.00	2.11
ATOM	1549	CG	GLU	A	175	27.387	9.247	20.319	1.00	2.81
ATOM	1550	CD	GLU	A	175	27.038	8.241	21.419	1.00	3.91
ATOM	1551	OE1	GLU	A	175	27.508	8.466	22.527	1.00	4.60
ATOM	1552	OE2	GLU	A	175	26.072	7.518	21.217	1.00	4.31
ATOM	1553	C	GLU	A	175	29.848	7.202	19.666	1.00	0.02
ATOM	1554	O	GLU	A	175	29.416	6.852	20.768	1.00	0.02
ATOM	1555	N	ALA	A	176	30.497	6.378	18.863	1.00	0.01
ATOM	1557	CA	ALA	A	176	30.770	5.009	19.298	1.00	0.01
ATOM	1558	CB	ALA	A	176	30.085	4.021	18.371	1.00	0.31
ATOM	1559	C	ALA	A	176	32.265	4.741	19.371	1.00	0.02
ATOM	1560	O	ALA	A	176	33.063	5.261	18.581	1.00	0.01
ATOM	1561	N	GLU	A	177	32.630	3.913	20.331	1.00	0.01
ATOM	1563	CA	GLU	A	177	34.048	3.668	20.610	1.00	0.02
ATOM	1564	CB	GLU	A	177	34.154	3.396	22.101	1.00	0.01
ATOM	1565	CG	GLU	A	177	33.567	4.556	22.894	1.00	0.02
ATOM	1566	CD	GLU	A	177	33.460	4.182	24.366	1.00	0.01
ATOM	1567	OE1	GLU	A	177	34.417	4.421	25.089	1.00	0.02
ATOM	1568	OE2	GLU	A	177	32.414	3.674	24.741	1.00	0.02
ATOM	1569	C	GLU	A	177	34.603	2.482	19.829	1.00	0.02
ATOM	1570	O	GLU	A	177	34.006	1.401	19.833	1.00	0.02
ATOM	1571	N	VAL	A	178	35.710	2.696	19.138	1.00	0.01
ATOM	1573	CA	VAL	A	178	36.389	1.592	18.442	1.00	0.02
ATOM	1574	CB	VAL	A	178	36.763	2.034	17.029	1.00	0.21
ATOM	1575	CG1	VAL	A	178	37.555	0.962	16.287	1.00	0.34
ATOM	1576	CG2	VAL	A	178	35.525	2.417	16.230	1.00	0.34
ATOM	1577	C	VAL	A	178	37.641	1.164	19.208	1.00	0.02
ATOM	1578	O	VAL	A	178	38.536	1.975	19.474	1.00	0.01
ATOM	1579	N	PHE	A	179	37.673	-0.103	19.582	1.00	0.02
ATOM	1581	CA	PHE	A	179	38.813	-0.652	20.325	1.00	0.02
ATOM	1582	CB	PHE	A	179	38.331	-1.131	21.688	1.00	0.01
ATOM	1583	CG	PHE	A	179	37.785	-0.030	22.590	1.00	0.02
ATOM	1584	CD1	PHE	A	179	38.610	1.013	22.989	1.00	0.01
ATOM	1585	CE1	PHE	A	179	38.114	2.014	23.814	1.00	0.02
ATOM	1586	CZ	PHE	A	179	36.794	1.969	24.241	1.00	0.01
ATOM	1587	CE2	PHE	A	179	35.969	0.926	23.841	1.00	0.01
ATOM	1588	CD2	PHE	A	179	36.464	-0.074	23.015	1.00	0.02
ATOM	1589	C	PHE	A	179	39.456	-1.824	19.594	1.00	0.01
ATOM	1590	O	PHE	A	179	38.765	-2.745	19.145	1.00	0.02
ATOM	1591	N	SER	A	180	40.772	-1.770	19.469	1.00	0.02
ATOM	1593	CA	SER	A	180	41.520	-2.893	18.890	1.00	0.01
ATOM	1594	CB	SER	A	180	42.876	-2.402	18.405	1.00	0.08
ATOM	1595	OG	SER	A	180	43.587	-3.537	17.933	1.00	0.09
ATOM	1596	C	SER	A	180	41.713	-3.982	19.938	1.00	0.01
ATOM	1597	O	SER	A	180	42.463	-3.816	20.906	1.00	0.02
ATOM	1598	N	THR	A	181	41.050	-5.100	19.718	1.00	0.01
ATOM	1600	CA	THR	A	181	41.020	-6.168	20.712	1.00	0.02
ATOM	1601	CB	THR	A	181	39.553	-6.503	20.935	1.00	0.65
ATOM	1602	OG1	THR	A	181	38.817	-5.290	20.839	1.00	1.46
ATOM	1603	CG2	THR	A	181	39.298	-7.129	22.301	1.00	0.43
ATOM	1604	C	THR	A	181	41.786	-7.392	20.221	1.00	0.03
ATOM	1605	O	THR	A	181	41.690	-7.780	19.049	1.00	0.01

ATOM	1606	N	ASP	A	182	42.579	-7.975	21.104	1.00	0.02
ATOM	1608	CA	ASP	A	182	43.355	-9.159	20.722	1.00	0.02
ATOM	1609	CB	ASP	A	182	44.572	-9.307	21.629	1.00	0.71
ATOM	1610	CG	ASP	A	182	45.377	-10.519	21.174	1.00	0.75
ATOM	1611	OD1	ASP	A	182	45.596	-10.586	19.972	1.00	0.69
ATOM	1612	OD2	ASP	A	182	45.339	-11.498	21.906	1.00	0.90
ATOM	1613	C	ASP	A	182	42.503	-10.426	20.768	1.00	0.00
ATOM	1614	O	ASP	A	182	42.490	-11.169	21.756	1.00	0.02
ATOM	1615	N	PHE	A	183	42.021	-10.785	19.589	1.00	0.02
ATOM	1617	CA	PHE	A	183	41.163	-11.961	19.427	1.00	0.01
ATOM	1618	CB	PHE	A	183	40.225	-11.721	18.253	1.00	0.02
ATOM	1619	CG	PHE	A	183	39.191	-10.636	18.536	1.00	0.01
ATOM	1620	CD1	PHE	A	183	38.500	-10.639	19.740	1.00	0.01
ATOM	1621	CE1	PHE	A	183	37.560	-9.652	20.004	1.00	0.01
ATOM	1622	CZ	PHE	A	183	37.310	-8.664	19.061	1.00	0.02
ATOM	1623	CE2	PHE	A	183	37.996	-8.666	17.855	1.00	0.00
ATOM	1624	CD2	PHE	A	183	38.936	-9.652	17.593	1.00	0.02
ATOM	1625	C	PHE	A	183	41.938	-13.264	19.246	1.00	0.01
ATOM	1626	O	PHE	A	183	41.325	-14.335	19.184	1.00	0.01
ATOM	1627	N	SER	A	184	43.263	-13.192	19.291	1.00	0.01
ATOM	1629	CA	SER	A	184	44.070	-14.418	19.321	1.00	0.02
ATOM	1630	CB	SER	A	184	45.492	-14.127	18.858	1.00	0.40
ATOM	1631	OG	SER	A	184	46.142	-13.367	19.866	1.00	1.07
ATOM	1632	C	SER	A	184	44.093	-14.982	20.744	1.00	0.02
ATOM	1633	O	SER	A	184	44.506	-16.127	20.961	1.00	0.01
ATOM	1634	N	ASN	A	185	43.690	-14.163	21.703	1.00	0.00
ATOM	1636	CA	ASN	A	185	43.336	-14.670	23.023	1.00	0.02
ATOM	1637	CB	ASN	A	185	44.304	-14.136	24.072	1.00	0.49
ATOM	1638	CG	ASN	A	185	44.036	-14.815	25.415	1.00	1.32
ATOM	1639	OD1	ASN	A	185	42.918	-14.767	25.947	1.00	1.55
ATOM	1640	ND2	ASN	A	185	45.056	-15.472	25.933	1.00	2.05
ATOM	1643	C	ASN	A	185	41.915	-14.218	23.337	1.00	0.02
ATOM	1644	O	ASN	A	185	41.708	-13.214	24.036	1.00	0.02

ATOM	1606	N	ASP	A	182	42.579	-7.975	21.104	1.00	0.02
ATOM	1608	CA	ASP	A	182	43.355	-9.159	20.722	1.00	0.02
ATOM	1609	CB	ASP	A	182	44.572	-9.307	21.629	1.00	0.71
ATOM	1610	CG	ASP	A	182	45.377	-10.519	21.174	1.00	0.75
ATOM	1611	OD1	ASP	A	182	45.596	-10.586	19.972	1.00	0.69
ATOM	1612	OD2	ASP	A	182	45.339	-11.498	21.906	1.00	0.90
ATOM	1613	C	ASP	A	182	42.503	-10.426	20.768	1.00	0.00
ATOM	1614	O	ASP	A	182	42.490	-11.169	21.756	1.00	0.02
ATOM	1615	N	PHE	A	183	42.021	-10.785	19.589	1.00	0.02
ATOM	1617	CA	PHE	A	183	41.163	-11.961	19.427	1.00	0.01
ATOM	1618	CB	PHE	A	183	40.225	-11.721	18.253	1.00	0.02
ATOM	1619	CG	PHE	A	183	39.191	-10.636	18.536	1.00	0.01
ATOM	1620	CD1	PHE	A	183	38.500	-10.639	19.740	1.00	0.01
ATOM	1621	CE1	PHE	A	183	37.560	-9.652	20.004	1.00	0.01
ATOM	1622	CZ	PHE	A	183	37.310	-8.664	19.061	1.00	0.02
ATOM	1623	CE2	PHE	A	183	37.996	-8.666	17.855	1.00	0.00
ATOM	1624	CD2	PHE	A	183	38.936	-9.652	17.593	1.00	0.02
ATOM	1625	C	PHE	A	183	41.938	-13.264	19.246	1.00	0.01
ATOM	1626	O	PHE	A	183	41.325	-14.335	19.184	1.00	0.01
ATOM	1627	N	SER	A	184	43.263	-13.192	19.291	1.00	0.01
ATOM	1629	CA	SER	A	184	44.070	-14.418	19.321	1.00	0.02
ATOM	1630	CB	SER	A	184	45.492	-14.127	18.858	1.00	0.40
ATOM	1631	OG	SER	A	184	46.142	-13.367	19.866	1.00	1.07
ATOM	1632	C	SER	A	184	44.093	-14.982	20.744	1.00	0.02
ATOM	1633	O	SER	A	184	44.506	-16.127	20.961	1.00	0.01
ATOM	1634	N	ASN	A	185	43.690	-14.163	21.703	1.00	0.00
ATOM	1636	CA	ASN	A	185	43.336	-14.670	23.023	1.00	0.02
ATOM	1637	CB	ASN	A	185	44.304	-14.136	24.072	1.00	0.49
ATOM	1638	CG	ASN	A	185	44.036	-14.815	25.415	1.00	1.32
ATOM	1639	OD1	ASN	A	185	42.918	-14.767	25.947	1.00	1.55
ATOM	1640	ND2	ASN	A	185	45.056	-15.472	25.933	1.00	2.05
ATOM	1643	C	ASN	A	185	41.915	-14.218	23.337	1.00	0.02
ATOM	1644	O	ASN	A	185	41.708	-13.214	24.036	1.00	0.02

ATOM	1645	N	PRO	A	186	40.958	-15.073	23.010	1.00	0.01
ATOM	1646	CA	PRO	A	186	39.547	-14.699	23.123	1.00	0.02
ATOM	1647	CB	PRO	A	186	38.808	-15.742	22.343	1.00	0.14
ATOM	1648	CG	PRO	A	186	39.772	-16.852	21.951	1.00	0.20
ATOM	1649	CD	PRO	A	186	41.142	-16.410	22.435	1.00	0.14
ATOM	1650	C	PRO	A	186	39.027	-14.640	24.564	1.00	0.02
ATOM	1651	O	PRO	A	186	38.000	-13.994	24.797	1.00	0.01
ATOM	1652	N	SER	A	187	39.786	-15.119	25.538	1.00	0.01
ATOM	1654	CA	SER	A	187	39.295	-15.048	26.913	1.00	0.02
ATOM	1655	CB	SER	A	187	39.850	-16.206	27.741	1.00	0.10
ATOM	1656	OG	SER	A	187	41.267	-16.119	27.793	1.00	1.03
ATOM	1657	C	SER	A	187	39.656	-13.702	27.533	1.00	0.02
ATOM	1658	O	SER	A	187	38.778	-13.067	28.128	1.00	0.01
ATOM	1659	N	ILE	A	188	40.787	-13.144	27.130	1.00	0.02
ATOM	1661	CA	ILE	A	188	41.173	-11.823	27.627	1.00	0.02
ATOM	1662	CB	ILE	A	188	42.691	-11.705	27.593	1.00	0.16
ATOM	1663	CG2	ILE	A	188	43.138	-10.302	27.988	1.00	0.71
ATOM	1664	CG1	ILE	A	188	43.322	-12.737	28.518	1.00	0.98
ATOM	1665	CD1	ILE	A	188	44.841	-12.619	28.524	1.00	1.50
ATOM	1666	C	ILE	A	188	40.537	-10.730	26.782	1.00	0.02
ATOM	1667	O	ILE	A	188	40.068	-9.726	27.338	1.00	0.02
ATOM	1668	N	ALA	A	189	40.245	-11.065	25.536	1.00	0.02
ATOM	1670	CA	ALA	A	189	39.522	-10.135	24.668	1.00	0.02
ATOM	1671	CB	ALA	A	189	39.525	-10.700	23.255	1.00	0.02
ATOM	1672	C	ALA	A	189	38.085	-9.964	25.141	1.00	0.02
ATOM	1673	O	ALA	A	189	37.648	-8.831	25.380	1.00	0.02
ATOM	1674	N	GLN	A	190	37.508	-11.065	25.592	1.00	0.01
ATOM	1676	CA	GLN	A	190	36.132	-11.066	26.081	1.00	0.02
ATOM	1677	CB	GLN	A	190	35.692	-12.514	26.029	1.00	0.17
ATOM	1678	CG	GLN	A	190	34.203	-12.707	26.211	1.00	0.67
ATOM	1679	CD	GLN	A	190	33.898	-14.128	25.770	1.00	1.38

ATOM	1680	OE1	GLN	A	190	32.823	-14.394	25.226	1.00	2.17
ATOM	1681	NE2	GLN	A	190	34.948	-14.929	25.720	1.00	2.05
ATOM	1684	C	GLN	A	190	36.026	-10.537	27.506	1.00	0.02
ATOM	1685	O	GLN	A	190	35.015	-9.914	27.853	1.00	0.01
ATOM	1686	N	ALA	A	191	37.130	-10.569	28.234	1.00	0.01
ATOM	1688	CA	ALA	A	191	37.151	-9.978	29.568	1.00	0.02
ATOM	1689	CB	ALA	A	191	38.387	-10.467	30.312	1.00	0.09
ATOM	1690	C	ALA	A	191	37.178	-8.460	29.464	1.00	0.02
ATOM	1691	O	ALA	A	191	36.374	-7.803	30.135	1.00	0.01
ATOM	1692	N	ARG	A	192	37.836	-7.949	28.435	1.00	0.01
ATOM	1694	CA	ARG	A	192	37.847	-6.502	28.210	1.00	0.01
ATOM	1695	CB	ARG	A	192	38.983	-6.166	27.256	1.00	0.18
ATOM	1696	CG	ARG	A	192	40.332	-6.317	27.948	1.00	0.97
ATOM	1697	CD	ARG	A	192	41.484	-6.059	26.985	1.00	1.10
ATOM	1698	NE	ARG	A	192	41.578	-7.133	25.987	1.00	1.92
ATOM	1699	CZ	ARG	A	192	42.740	-7.521	25.458	1.00	2.61
ATOM	1700	NH1	ARG	A	192	43.863	-6.868	25.763	1.00	3.27
ATOM	1701	NH2	ARG	A	192	42.773	-8.534	24.592	1.00	3.22
ATOM	1702	C	ARG	A	192	36.524	-6.006	27.636	1.00	0.02
ATOM	1703	O	ARG	A	192	36.009	-4.985	28.111	1.00	0.01
ATOM	1704	N	ILE	A	193	35.862	-6.846	26.857	1.00	0.01
ATOM	1706	CA	ILE	A	193	34.552	-6.478	26.313	1.00	0.02
ATOM	1707	CB	ILE	A	193	34.160	-7.505	25.258	1.00	0.01
ATOM	1708	CG2	ILE	A	193	32.765	-7.216	24.719	1.00	0.02
ATOM	1709	CG1	ILE	A	193	35.172	-7.510	24.121	1.00	0.02
ATOM	1710	CD1	ILE	A	193	34.843	-8.578	23.087	1.00	0.02
ATOM	1711	C	ILE	A	193	33.486	-6.430	27.406	1.00	0.00
ATOM	1712	O	ILE	A	193	32.863	-5.376	27.594	1.00	0.02
ATOM	1713	N	ASN	A	194	33.515	-7.409	28.296	1.00	0.02
ATOM	1715	CA	ASN	A	194	32.533	-7.467	29.378	1.00	0.02
ATOM	1716	CB	ASN	A	194	32.502	-8.893	29.900	1.00	0.02
ATOM	1717	CG	ASN	A	194	31.780	-9.764	28.883	1.00	0.02
ATOM	1718	OD1	ASN	A	194	30.787	-9.320	28.289	1.00	0.02
ATOM	1719	ND2	ASN	A	194	32.154	-11.028	28.844	1.00	0.02
ATOM	1722	C	ASN	A	194	32.821	-6.502	30.521	1.00	0.02
ATOM	1723	O	ASN	A	194	31.865	-6.020	31.147	1.00	0.02
ATOM	1724	N	SER	A	195	34.059	-6.057	30.644	1.00	0.02
ATOM	1726	CA	SER	A	195	34.377	-5.051	31.654	1.00	0.02
ATOM	1727	CB	SER	A	195	35.849	-5.156	32.027	1.00	0.14
ATOM	1728	OG	SER	A	195	36.057	-6.438	32.601	1.00	0.40
ATOM	1729	C	SER	A	195	34.074	-3.648	31.148	1.00	0.01
ATOM	1730	O	SER	A	195	33.677	-2.794	31.947	1.00	0.02
ATOM	1731	N	HIS	A	196	34.015	-3.488	29.836	1.00	0.02
ATOM	1733	CA	HIS	A	196	33.628	-2.201	29.258	1.00	0.02
ATOM	1734	CB	HIS	A	196	34.143	-2.145	27.826	1.00	0.17
ATOM	1735	CG	HIS	A	196	33.764	-0.873	27.099	1.00	1.00
ATOM	1736	ND1	HIS	A	196	32.882	-0.755	26.088	1.00	2.01
ATOM	1738	CE1	HIS	A	196	32.814	0.536	25.706	1.00	2.59
ATOM	1739	NE2	HIS	A	196	33.661	1.240	26.490	1.00	2.37
ATOM	1740	CD2	HIS	A	196	34.254	0.385	27.353	1.00	1.67
ATOM	1741	C	HIS	A	196	32.111	-2.043	29.265	1.00	0.03
ATOM	1742	O	HIS	A	196	31.601	-0.956	29.572	1.00	0.02

ATOM	1743	N	VAL	A	197	31.420	-3.169	29.187	1.00	0.01
ATOM	1745	CA	VAL	A	197	29.958	-3.169	29.286	1.00	0.02
ATOM	1746	CB	VAL	A	197	29.467	-4.552	28.875	1.00	0.01
ATOM	1747	CG1	VAL	A	197	27.989	-4.721	29.171	1.00	0.01
ATOM	1748	CG2	VAL	A	197	29.752	-4.831	27.404	1.00	0.01
ATOM	1749	C	VAL	A	197	29.518	-2.860	30.716	1.00	0.01
ATOM	1750	O	VAL	A	197	28.743	-1.915	30.935	1.00	0.01
ATOM	1751	N	LYS	A	198	30.263	-3.415	31.658	1.00	0.01
ATOM	1753	CA	LYS	A	198	30.030	-3.139	33.072	1.00	0.01
ATOM	1754	CB	LYS	A	198	30.907	-4.106	33.854	1.00	0.11
ATOM	1755	CG	LYS	A	198	30.931	-3.796	35.343	1.00	0.81
ATOM	1756	CD	LYS	A	198	31.958	-4.676	36.041	1.00	0.83
ATOM	1757	CE	LYS	A	198	33.334	-4.491	35.411	1.00	1.41
ATOM	1758	NZ	LYS	A	198	34.329	-5.373	36.041	1.00	2.32
ATOM	1759	C	LYS	A	198	30.403	-1.705	33.439	1.00	0.01
ATOM	1760	O	LYS	A	198	29.614	-1.038	34.119	1.00	0.01
ATOM	1761	N	LYS	A	199	31.413	-1.162	32.779	1.00	0.01
ATOM	1763	CA	LYS	A	199	31.881	0.196	33.062	1.00	0.02
ATOM	1764	CB	LYS	A	199	33.240	0.367	32.391	1.00	0.02
ATOM	1765	CG	LYS	A	199	33.799	1.771	32.582	1.00	0.02
ATOM	1766	CD	LYS	A	199	35.105	1.951	31.818	1.00	0.01
ATOM	1767	CE	LYS	A	199	35.636	3.373	31.955	1.00	0.02
ATOM	1768	NZ	LYS	A	199	36.877	3.548	31.184	1.00	0.01
ATOM	1769	C	LYS	A	199	30.935	1.281	32.553	1.00	0.02
ATOM	1770	O	LYS	A	199	30.631	2.207	33.317	1.00	0.02
ATOM	1771	N	LYS	A	200	30.300	1.076	31.409	1.00	0.01
ATOM	1773	CA	LYS	A	200	29.396	2.122	30.913	1.00	0.00
ATOM	1774	CB	LYS	A	200	29.241	2.021	29.403	1.00	0.54
ATOM	1775	CG	LYS	A	200	30.566	2.268	28.696	1.00	0.77
ATOM	1776	CD	LYS	A	200	30.344	2.585	27.223	1.00	1.41
ATOM	1777	CE	LYS	A	200	29.590	3.900	27.054	1.00	2.57
ATOM	1778	NZ	LYS	A	200	29.363	4.207	25.632	1.00	3.36
ATOM	1779	C	LYS	A	200	28.025	2.062	31.577	1.00	0.02
ATOM	1780	O	LYS	A	200	27.350	3.091	31.696	1.00	0.01
ATOM	1781	N	THR	A	201	27.706	0.918	32.158	1.00	0.01
ATOM	1783	CA	THR	A	201	26.471	0.794	32.935	1.00	0.02
ATOM	1784	CB	THR	A	201	25.869	-0.573	32.675	1.00	0.02
ATOM	1785	OG1	THR	A	201	26.737	-1.537	33.256	1.00	0.01
ATOM	1786	CG2	THR	A	201	25.729	-0.843	31.182	1.00	0.02
ATOM	1787	C	THR	A	201	26.710	0.937	34.436	1.00	0.01
ATOM	1788	O	THR	A	201	25.821	0.578	35.217	1.00	0.02
ATOM	1789	N	GLN	A	202	27.929	1.298	34.815	1.00	0.01
ATOM	1791	CA	GLN	A	202	28.342	1.444	36.222	1.00	0.01
ATOM	1792	CB	GLN	A	202	27.749	2.737	36.767	1.00	0.01
ATOM	1793	CG	GLN	A	202	28.390	3.955	36.107	1.00	0.02
ATOM	1794	CD	GLN	A	202	29.832	4.128	36.586	1.00	0.02
ATOM	1795	OE1	GLN	A	202	30.071	4.474	37.748	1.00	0.02
ATOM	1796	NE2	GLN	A	202	30.781	3.868	35.702	1.00	0.02
ATOM	1799	C	GLN	A	202	27.944	0.258	37.096	1.00	0.02
ATOM	1800	O	GLN	A	202	27.133	0.391	38.017	1.00	0.02
ATOM	1801	N	GLY	A	203	28.388	-0.919	36.684	1.00	0.01
ATOM	1803	CA	GLY	A	203	28.146	-2.150	37.443	1.00	0.02
ATOM	1804	C	GLY	A	203	26.858	-2.892	37.073	1.00	0.01
ATOM	1805	O	GLY	A	203	26.715	-4.067	37.432	1.00	0.02
ATOM	1806	N	LYS	A	204	25.948	-2.241	36.365	1.00	0.02
ATOM	1808	CA	LYS	A	204	24.640	-2.848	36.097	1.00	0.02
ATOM	1809	CB	LYS	A	204	23.717	-1.784	35.509	1.00	0.02
ATOM	1810	CG	LYS	A	204	22.306	-2.319	35.295	1.00	0.02

ATOM	1811	CD	LYS	A	204	21.668	-2.736	36.615	1.00	0.01
ATOM	1812	CE	LYS	A	204	20.310	-3.385	36.387	1.00	0.02
ATOM	1813	NZ	LYS	A	204	20.448	-4.592	35.555	1.00	0.01
ATOM	1814	C	LYS	A	204	24.714	-4.046	35.154	1.00	0.02
ATOM	1815	O	LYS	A	204	24.300	-5.148	35.535	1.00	0.01
ATOM	1816	N	VAL	A	205	25.316	-3.888	33.988	1.00	0.02
ATOM	1818	CA	VAL	A	205	25.328	-5.002	33.046	1.00	0.02
ATOM	1819	CB	VAL	A	205	24.963	-4.480	31.663	1.00	1.75
ATOM	1820	CG1	VAL	A	205	24.930	-5.618	30.660	1.00	2.29
ATOM	1821	CG2	VAL	A	205	23.609	-3.781	31.690	1.00	1.90
ATOM	1822	C	VAL	A	205	26.693	-5.678	33.049	1.00	0.02
ATOM	1823	O	VAL	A	205	27.606	-5.332	32.287	1.00	0.02
ATOM	1824	N	VAL	A	206	26.830	-6.623	33.959	1.00	0.02
ATOM	1826	CA	VAL	A	206	28.087	-7.359	34.091	1.00	0.02
ATOM	1827	CB	VAL	A	206	28.282	-7.714	35.564	1.00	0.02
ATOM	1828	CG1	VAL	A	206	28.669	-6.487	36.378	1.00	0.02
ATOM	1829	CG2	VAL	A	206	27.044	-8.374	36.164	1.00	0.02
ATOM	1830	C	VAL	A	206	28.135	-8.619	33.226	1.00	0.02
ATOM	1831	O	VAL	A	206	27.325	-9.541	33.380	1.00	0.02
ATOM	1832	N	ASP	A	207	29.094	-8.621	32.311	1.00	0.01
ATOM	1834	CA	ASP	A	207	29.461	-9.822	31.538	1.00	0.01
ATOM	1835	CB	ASP	A	207	29.973	-	32.545	1.00	0.01
							10.855			
ATOM	1836	CG	ASP	A	207	30.574	-	31.861	1.00	0.02
							12.075			
ATOM	1837	OD1	ASP	A	207	31.781	-	31.656	1.00	0.02
							12.066			
ATOM	1838	OD2	ASP	A	207	29.828	-	31.589	1.00	0.01
							13.006			
ATOM	1839	C	ASP	A	207	28.307	-	30.715	1.00	0.02
							10.405			
ATOM	1840	O	ASP	A	207	27.567	-	31.197	1.00	0.01
							11.272			
ATOM	1841	N	ILE	A	208	28.194	-9.988	29.464	1.00	0.02
ATOM	1843	CA	ILE	A	208	27.103	-	28.619	1.00	0.02
							10.495			
ATOM	1844	CB	ILE	A	208	26.250	-9.320	28.151	1.00	2.45
ATOM	1845	CG2	ILE	A	208	25.292	-9.714	27.031	1.00	3.34
ATOM	1846	CG1	ILE	A	208	25.463	-8.770	29.330	1.00	3.29
ATOM	1847	CD1	ILE	A	208	24.554	-9.843	29.922	1.00	4.19
ATOM	1848	C	ILE	A	208	27.613	-	27.438	1.00	0.01
							11.320			
ATOM	1849	O	ILE	A	208	26.952	-	27.023	1.00	0.00
							12.280			
ATOM	1850	N	ILE	A	209	28.838	-	27.020	1.00	0.02
							11.054			
ATOM	1852	CA	ILE	A	209	29.452	-	25.933	1.00	0.02
							11.827			
ATOM	1853	CB	ILE	A	209	30.602	-	25.362	1.00	1.56
							10.999			
ATOM	1854	CG2	ILE	A	209	31.305	-	24.229	1.00	2.38
							11.731			
ATOM	1855	CG1	ILE	A	209	30.097	-9.651	24.861	1.00	2.02
ATOM	1856	CD1	ILE	A	209	29.197	-9.802	23.639	1.00	2.14
ATOM	1857	C	ILE	A	209	29.949	-	26.494	1.00	0.02
							13.157			
ATOM	1858	O	ILE	A	209	30.876	-	27.314	1.00	0.02
							13.182			

1811 1812 1813 1814 1815 1816 1818 1819 1820 1821 1822 1823 1824 1826 1827 1828 1829 1830 1831 1832 1834 1835 1836 1837 1838 1839 1840 1841 1843 1844 1845 1846 1847 1848 1849 1850 1852 1853 1854 1855 1856 1857 1858

ATOM	1859	N	GLN	A	210	29.245	- 14.223	26.140	1.00	0.02
ATOM	1861	CA	GLN	A	210	29.515	- 15.557	26.698	1.00	0.01
ATOM	1862	CB	GLN	A	210	28.181	- 16.245	26.979	1.00	1.43
ATOM	1863	CG	GLN	A	210	27.267	- 15.429	27.887	1.00	2.09
ATOM	1864	CD	GLN	A	210	27.915	- 15.196	29.247	1.00	2.72
ATOM	1865	OE1	GLN	A	210	28.581	- 16.080	29.799	1.00	2.94
ATOM	1866	NE2	GLN	A	210	27.649	- 14.026	29.797	1.00	3.33
ATOM	1869	C	GLN	A	210	30.311	- 16.465	25.763	1.00	0.02
ATOM	1870	O	GLN	A	210	30.722	- 17.560	26.167	1.00	0.02
ATOM	1871	N	GLY	A	211	30.544	- 16.021	24.542	1.00	0.01
ATOM	1873	CA	GLY	A	211	31.234	- 16.887	23.587	1.00	0.02
ATOM	1874	C	GLY	A	211	31.664	- 16.167	22.315	1.00	0.01
ATOM	1875	O	GLY	A	211	30.924	- 16.144	21.323	1.00	0.01
ATOM	1876	N	LEU	A	212	32.829	- 15.544	22.365	1.00	0.02
ATOM	1878	CA	LEU	A	212	33.429	- 15.021	21.131	1.00	0.02
ATOM	1879	CB	LEU	A	212	34.730	- 14.291	21.442	1.00	0.02
ATOM	1880	CG	LEU	A	212	34.509	- 12.973	22.166	1.00	0.03
ATOM	1881	CD1	LEU	A	212	35.848	- 12.284	22.399	1.00	0.02
ATOM	1882	CD2	LEU	A	212	33.589	- 12.070	21.357	1.00	0.02
ATOM	1883	C	LEU	A	212	33.764	- 16.166	20.184	1.00	0.02
ATOM	1884	O	LEU	A	212	34.391	- 17.152	20.586	1.00	0.02
ATOM	1885	N	ASP	A	213	33.348	- 16.028	18.937	1.00	0.02
ATOM	1887	CA	ASP	A	213	33.725	- 17.009	17.915	1.00	0.02
ATOM	1888	CB	ASP	A	213	33.025	- 16.663	16.602	1.00	0.02
ATOM	1889	CG	ASP	A	213	31.513	- 16.871	16.720	1.00	0.02
ATOM	1890	OD1	ASP	A	213	31.146	- 17.786	17.446	1.00	0.02
ATOM	1891	OD2	ASP	A	213	30.814	- 16.339	15.873	1.00	0.01
ATOM	1892	C	ASP	A	213	35.243	- 17.007	17.735	1.00	0.01
ATOM	1893	O	ASP	A	213	35.895	- 15.971	17.900	1.00	0.02
ATOM	1894	N	LEU	A	214	35.801	-	17.333	1.00	0.02

ATOM	1859	N	GLN	A	210	29.245	- 14.223	26.140	1.00	0.02
ATOM	1861	CA	GLN	A	210	29.515	- 15.557	26.698	1.00	0.01
ATOM	1862	CB	GLN	A	210	28.181	- 16.245	26.979	1.00	1.43
ATOM	1863	CG	GLN	A	210	27.267	- 15.429	27.887	1.00	2.09
ATOM	1864	CD	GLN	A	210	27.915	- 15.196	29.247	1.00	2.72
ATOM	1865	OE1	GLN	A	210	28.581	- 16.080	29.799	1.00	2.94
ATOM	1866	NE2	GLN	A	210	27.649	- 14.026	29.797	1.00	3.33
ATOM	1869	C	GLN	A	210	30.311	- 16.465	25.763	1.00	0.02
ATOM	1870	O	GLN	A	210	30.722	- 17.560	26.167	1.00	0.02
ATOM	1871	N	GLY	A	211	30.544	- 16.021	24.542	1.00	0.01
ATOM	1873	CA	GLY	A	211	31.234	- 16.887	23.587	1.00	0.02
ATOM	1874	C	GLY	A	211	31.664	- 16.167	22.315	1.00	0.01
ATOM	1875	O	GLY	A	211	30.924	- 16.144	21.323	1.00	0.01
ATOM	1876	N	LEU	A	212	32.829	- 15.544	22.365	1.00	0.02
ATOM	1878	CA	LEU	A	212	33.429	- 15.021	21.131	1.00	0.02
ATOM	1879	CB	LEU	A	212	34.730	- 14.291	21.442	1.00	0.02
ATOM	1880	CG	LEU	A	212	34.509	- 12.973	22.166	1.00	0.03
ATOM	1881	CD1	LEU	A	212	35.848	- 12.284	22.399	1.00	0.02
ATOM	1882	CD2	LEU	A	212	33.589	- 12.070	21.357	1.00	0.02
ATOM	1883	C	LEU	A	212	33.764	- 16.166	20.184	1.00	0.02
ATOM	1884	O	LEU	A	212	34.391	- 17.152	20.586	1.00	0.02
ATOM	1885	N	ASP	A	213	33.348	- 16.028	18.937	1.00	0.02
ATOM	1887	CA	ASP	A	213	33.725	- 17.009	17.915	1.00	0.02
ATOM	1888	CB	ASP	A	213	33.025	- 16.663	16.602	1.00	0.02
ATOM	1889	CG	ASP	A	213	31.513	- 16.871	16.720	1.00	0.02
ATOM	1890	OD1	ASP	A	213	31.146	- 17.786	17.446	1.00	0.02
ATOM	1891	OD2	ASP	A	213	30.814	- 16.339	15.873	1.00	0.01
ATOM	1892	C	ASP	A	213	35.243	- 17.007	17.735	1.00	0.01
ATOM	1893	O	ASP	A	213	35.895	- 15.971	17.900	1.00	0.02
ATOM	1894	N	LEU	A	214	35.801	-	17.333	1.00	0.02

							18.139			
ATOM	1896	CA	LEU	A	214	37.269	- 18.245	17.212	1.00	0.02
ATOM	1897	CB	LEU	A	214	37.656	- 19.719	17.218	1.00	0.71
ATOM	1898	CG	LEU	A	214	37.303	- 20.384	18.545	1.00	1.18
ATOM	1899	CD1	LEU	A	214	37.561	- 21.886	18.490	1.00	2.00
ATOM	1900	CD2	LEU	A	214	38.070	- 19.749	19.702	1.00	0.70
ATOM	1901	C	LEU	A	214	37.834	- 17.570	15.958	1.00	0.02
ATOM	1902	O	LEU	A	214	39.046	- 17.360	15.853	1.00	0.01
ATOM	1903	N	LEU	A	215	36.952	- 17.175	15.054	1.00	0.02
ATOM	1905	CA	LEU	A	215	37.337	- 16.379	13.885	1.00	0.01
ATOM	1906	CB	LEU	A	215	36.730	- 17.010	12.636	1.00	0.36
ATOM	1907	CG	LEU	A	215	37.280	- 18.410	12.386	1.00	0.58
ATOM	1908	CD1	LEU	A	215	36.543	- 19.089	11.238	1.00	0.90
ATOM	1909	CD2	LEU	A	215	38.782	- 18.375	12.118	1.00	0.75
ATOM	1910	C	LEU	A	215	36.851	- 14.934	14.019	1.00	0.02
ATOM	1911	O	LEU	A	215	36.600	- 14.274	13.002	1.00	0.02
ATOM	1912	N	THR	A	216	36.624	- 14.491	15.248	1.00	0.02
ATOM	1914	CA	THR	A	216	36.066	- 13.154	15.478	1.00	0.01
ATOM	1915	CB	THR	A	216	35.668	- 13.016	16.948	1.00	0.02
ATOM	1916	OG1	THR	A	216	34.418	- 13.675	17.093	1.00	0.02
ATOM	1917	CG2	THR	A	216	35.435	- 11.568	17.361	1.00	0.02
ATOM	1918	C	THR	A	216	36.995	- 12.024	15.054	1.00	0.01
ATOM	1919	O	THR	A	216	38.106	- 11.858	15.566	1.00	0.02
ATOM	1920	N	ALA	A	217	36.546	- 11.310	14.035	1.00	0.02
ATOM	1922	CA	ALA	A	217	37.233	- 10.105	13.595	1.00	0.01
ATOM	1923	CB	ALA	A	217	37.410	- 10.187	12.085	1.00	0.41
ATOM	1924	C	ALA	A	217	36.467	-8.837	13.977	1.00	0.02
ATOM	1925	O	ALA	A	217	37.029	-7.735	13.887	1.00	0.02
ATOM	1926	N	MET	A	218	35.230	-8.988	14.433	1.00	0.02
ATOM	1928	CA	MET	A	218	34.427	-7.813	14.799	1.00	0.02
ATOM	1929	CB	MET	A	218	33.769	-7.272	13.532	1.00	0.89
ATOM	1930	CG	MET	A	218	32.877	-6.070	13.823	1.00	1.03
ATOM	1931	SD	MET	A	218	33.726	-4.594	14.425	1.00	1.41
ATOM	1932	CE	MET	A	218	34.664	-4.210	12.930	1.00	1.60

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ATOM	1933	C	MET	A	218	33.340	-8.122	15.832	1.00	0.01
ATOM	1934	O	MET	A	218	32.415	-8.910	15.578	1.00	0.01
ATOM	1935	N	VAL	A	219	33.482	-7.517	16.999	1.00	0.02
ATOM	1937	CA	VAL	A	219	32.422	-7.542	18.017	1.00	0.02
ATOM	1938	CB	VAL	A	219	33.068	-7.764	19.381	1.00	0.06
ATOM	1939	CG1	VAL	A	219	32.055	-7.782	20.521	1.00	0.12
ATOM	1940	CG2	VAL	A	219	33.866	-9.056	19.379	1.00	0.07
ATOM	1941	C	VAL	A	219	31.650	-6.220	17.995	1.00	0.01
ATOM	1942	O	VAL	A	219	32.250	-5.139	17.968	1.00	0.02
ATOM	1943	N	LEU	A	220	30.333	-6.315	18.009	1.00	0.01
ATOM	1945	CA	LEU	A	220	29.482	-5.123	17.957	1.00	0.01
ATOM	1946	CB	LEU	A	220	28.642	-5.205	16.680	1.00	0.01
ATOM	1947	CG	LEU	A	220	28.089	-3.862	16.191	1.00	0.01
ATOM	1948	CD1	LEU	A	220	27.668	-3.953	14.729	1.00	0.01
ATOM	1949	CD2	LEU	A	220	26.946	-3.313	17.041	1.00	0.01
ATOM	1950	C	LEU	A	220	28.594	-5.077	19.200	1.00	0.01
ATOM	1951	O	LEU	A	220	27.497	-5.650	19.218	1.00	0.01
ATOM	1952	N	VAL	A	221	29.073	-4.388	20.221	1.00	0.01
ATOM	1954	CA	VAL	A	221	28.305	-4.223	21.462	1.00	0.01
ATOM	1955	CB	VAL	A	221	29.305	-4.000	22.595	1.00	0.02
ATOM	1956	CG1	VAL	A	221	28.634	-3.684	23.928	1.00	0.01
ATOM	1957	CG2	VAL	A	221	30.216	-5.211	22.736	1.00	0.02
ATOM	1958	C	VAL	A	221	27.345	-3.041	21.336	1.00	0.01
ATOM	1959	O	VAL	A	221	27.729	-1.976	20.839	1.00	0.02
ATOM	1960	N	ASN	A	222	26.090	-3.262	21.689	1.00	0.01
ATOM	1962	CA	ASN	A	222	25.084	-2.195	21.631	1.00	0.01
ATOM	1963	CB	ASN	A	222	24.364	-2.314	20.295	1.00	0.01
ATOM	1964	CG	ASN	A	222	23.343	-1.197	20.131	1.00	0.01
ATOM	1965	OD1	ASN	A	222	22.132	-1.435	20.262	1.00	0.01
ATOM	1966	ND2	ASN	A	222	23.834	0.015	19.928	1.00	0.01
ATOM	1969	C	ASN	A	222	24.095	-2.302	22.795	1.00	0.01
ATOM	1970	O	ASN	A	222	22.975	-2.808	22.661	1.00	0.02
ATOM	1971	N	HIS	A	223	24.526	-1.833	23.950	1.00	0.01
ATOM	1973	CA	HIS	A	223	23.697	-1.944	25.158	1.00	0.02
ATOM	1974	CB	HIS	A	223	24.551	-2.496	26.298	1.00	0.87
ATOM	1975	CG	HIS	A	223	24.966	-3.960	26.176	1.00	1.28
ATOM	1976	ND1	HIS	A	223	25.150	-4.803	27.206	1.00	1.65
ATOM	1978	CE1	HIS	A	223	25.513	-6.015	26.741	1.00	2.67
ATOM	1979	NE2	HIS	A	223	25.558	-5.941	25.393	1.00	3.07
ATOM	1980	CD2	HIS	A	223	25.223	-4.684	25.032	1.00	2.44
ATOM	1981	C	HIS	A	223	23.079	-0.594	25.527	1.00	0.01
ATOM	1982	O	HIS	A	223	23.507	0.440	24.998	1.00	0.01
ATOM	1983	N	ILE	A	224	22.034	-0.619	26.344	1.00	0.01
ATOM	1985	CA	ILE	A	224	21.324	0.625	26.704	1.00	0.02
ATOM	1986	CB	ILE	A	224	20.522	1.038	25.466	1.00	0.01
ATOM	1987	CG2	ILE	A	224	19.655	-0.104	24.944	1.00	0.01
ATOM	1988	CG1	ILE	A	224	19.686	2.287	25.693	1.00	0.01
ATOM	1989	CD1	ILE	A	224	18.973	2.688	24.405	1.00	0.00
ATOM	1990	C	ILE	A	224	20.434	0.501	27.963	1.00	0.01
ATOM	1991	O	ILE	A	224	19.450	-0.251	27.990	1.00	0.02
ATOM	1992	N	PHE	A	225	20.793	1.254	28.996	1.00	0.02
ATOM	1994	CA	PHE	A	225	20.052	1.255	30.279	1.00	0.01
ATOM	1995	CB	PHE	A	225	21.077	1.048	31.398	1.00	0.01
ATOM	1996	CG	PHE	A	225	20.524	1.137	32.821	1.00	0.02
ATOM	1997	CD1	PHE	A	225	19.720	0.121	33.320	1.00	0.00
ATOM	1998	CE1	PHE	A	225	19.207	0.206	34.608	1.00	0.01
ATOM	1999	CZ	PHE	A	225	19.500	1.309	35.400	1.00	0.01
ATOM	2000	CE2	PHE	A	225	20.306	2.324	34.903	1.00	0.02

ATOM	2001	CD2	PHE	A	225	20.817	2.238	33.615	1.00	0.01
ATOM	2002	C	PHE	A	225	19.257	2.550	30.534	1.00	0.02
ATOM	2003	O	PHE	A	225	19.752	3.660	30.299	1.00	0.02
ATOM	2004	N	PHE	A	226	18.034	2.401	31.023	1.00	0.01
ATOM	2006	CA	PHE	A	226	17.212	3.560	31.412	1.00	0.01
ATOM	2007	CB	PHE	A	226	16.186	3.802	30.308	1.00	0.01
ATOM	2008	CG	PHE	A	226	15.325	5.054	30.479	1.00	0.01
ATOM	2009	CD1	PHE	A	226	15.909	6.259	30.851	1.00	0.01
ATOM	2010	CE1	PHE	A	226	15.124	7.394	31.007	1.00	0.01
ATOM	2011	CZ	PHE	A	226	13.756	7.327	30.783	1.00	0.01
ATOM	2012	CE2	PHE	A	226	13.174	6.126	30.399	1.00	0.01
ATOM	2013	CD2	PHE	A	226	13.959	4.992	30.243	1.00	0.01
ATOM	2014	C	PHE	A	226	16.482	3.348	32.748	1.00	0.02
ATOM	2015	O	PHE	A	226	15.952	2.263	33.022	1.00	0.02
ATOM	2016	N	LYS	A	227	16.510	4.367	33.594	1.00	0.01
ATOM	2018	CA	LYS	A	227	15.692	4.371	34.819	1.00	0.01
ATOM	2019	CB	LYS	A	227	16.587	4.677	36.016	1.00	0.01
ATOM	2020	CG	LYS	A	227	15.844	4.470	37.332	1.00	0.02
ATOM	2021	CD	LYS	A	227	16.766	4.616	38.535	1.00	0.00
ATOM	2022	CE	LYS	A	227	16.032	4.290	39.831	1.00	0.02
ATOM	2023	NZ	LYS	A	227	16.933	4.396	40.990	1.00	0.01
ATOM	2024	C	LYS	A	227	14.570	5.412	34.690	1.00	0.01
ATOM	2025	O	LYS	A	227	14.826	6.574	34.352	1.00	0.00
ATOM	2026	N	ALA	A	228	13.343	4.984	34.942	1.00	0.02
ATOM	2028	CA	ALA	A	228	12.164	5.833	34.703	1.00	0.00
ATOM	2029	CB	ALA	A	228	10.949	4.915	34.631	1.00	2.74
ATOM	2030	C	ALA	A	228	11.903	6.930	35.745	1.00	0.02
ATOM	2031	O	ALA	A	228	11.520	6.656	36.890	1.00	0.01
ATOM	2032	N	LYS	A	229	12.091	8.173	35.323	1.00	0.02
ATOM	2034	CA	LYS	A	229	11.680	9.329	36.140	1.00	0.01
ATOM	2035	CB	LYS	A	229	12.712	10.446	36.047	1.00	0.01
ATOM	2036	CG	LYS	A	229	14.112	10.023	36.464	1.00	0.02
ATOM	2037	CD	LYS	A	229	15.020	11.247	36.501	1.00	0.01
ATOM	2038	CE	LYS	A	229	14.956	12.014	35.184	1.00	0.02
ATOM	2039	NZ	LYS	A	229	15.754	13.250	35.241	1.00	0.02
ATOM	2040	C	LYS	A	229	10.359	9.894	35.625	1.00	0.02
ATOM	2041	O	LYS	A	229	10.340	10.602	34.614	1.00	0.01
ATOM	2042	N	TRP	A	230	9.288	9.641	36.355	1.00	0.01
ATOM	2044	CA	TRP	A	230	7.947	10.079	35.942	1.00	0.00
ATOM	2045	CB	TRP	A	230	6.928	9.244	36.711	1.00	0.01
ATOM	2046	CG	TRP	A	230	7.132	7.747	36.623	1.00	0.02
ATOM	2047	CD1	TRP	A	230	7.766	6.944	37.544	1.00	0.02
ATOM	2048	NE1	TRP	A	230	7.738	5.666	37.093	1.00	0.02
ATOM	2050	CE2	TRP	A	230	7.105	5.583	35.910	1.00	0.02
ATOM	2051	CZ2	TRP	A	230	6.833	4.520	35.061	1.00	0.02
ATOM	2052	CH2	TRP	A	230	6.138	4.745	33.880	1.00	0.02
ATOM	2053	CZ3	TRP	A	230	5.714	6.027	33.543	1.00	0.02
ATOM	2054	CE3	TRP	A	230	5.985	7.098	34.386	1.00	0.01
ATOM	2055	CD2	TRP	A	230	6.681	6.878	35.563	1.00	0.01
ATOM	2056	C	TRP	A	230	7.682	11.542	36.280	1.00	0.01
ATOM	2057	O	TRP	A	230	8.238	12.071	37.246	1.00	0.02
ATOM	2058	N	GLU	A	231	6.838	12.187	35.486	1.00	0.00
ATOM	2060	CA	GLU	A	231	6.317	13.505	35.880	1.00	0.02
ATOM	2061	CB	GLU	A	231	5.940	14.317	34.648	1.00	0.01
ATOM	2062	CG	GLU	A	231	7.167	14.820	33.909	1.00	0.02
ATOM	2063	CD	GLU	A	231	6.748	15.520	32.625	1.00	0.01
ATOM	2064	OE1	GLU	A	231	5.717	15.135	32.085	1.00	0.02
ATOM	2065	OE2	GLU	A	231	7.483	16.398	32.189	1.00	0.01

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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ATOM	2066	C	GLU	A	231	5.075	13.325	36.743	-1.00	0.01
ATOM	2067	O	GLU	A	231	4.708	14.204	37.531	1.00	0.02
ATOM	2068	N	LYS	A	232	4.469	12.157	36.611	1.00	0.01
ATOM	2070	CA	LYS	A	232	3.346	11.766	37.468	1.00	0.00
ATOM	2071	CB	LYS	A	232	2.213	11.333	36.545	1.00	0.65
ATOM	2072	CG	LYS	A	232	1.961	12.369	35.451	1.00	1.25
ATOM	2073	CD	LYS	A	232	0.943	11.872	34.432	1.00	1.89
ATOM	2074	CE	LYS	A	232	0.755	12.859	33.286	1.00	2.53
ATOM	2075	NZ	LYS	A	232	-0.202	12.335	32.300	1.00	3.06
ATOM	2076	C	LYS	A	232	3.774	10.593	38.356	1.00	0.02
ATOM	2077	O	LYS	A	232	3.609	9.431	37.968	1.00	0.02
ATOM	2078	N	PRO	A	233	4.328	10.898	39.522	1.00	0.01
ATOM	2079	CA	PRO	A	233	5.023	9.884	40.325	1.00	0.02
ATOM	2080	CB	PRO	A	233	5.778	10.650	41.368	1.00	0.02
ATOM	2081	CG	PRO	A	233	5.390	12.117	41.289	1.00	0.02
ATOM	2082	CD	PRO	A	233	4.451	12.240	40.101	1.00	0.01
ATOM	2083	C	PRO	A	233	4.059	8.901	40.978	1.00	0.02
ATOM	2084	O	PRO	A	233	2.893	9.225	41.240	1.00	0.02
ATOM	2085	N	PHE	A	234	4.542	7.694	41.205	1.00	0.01
ATOM	2087	CA	PHE	A	234	3.728	6.687	41.895	1.00	0.02
ATOM	2088	CB	PHE	A	234	3.968	5.325	41.258	1.00	0.02
ATOM	2089	CG	PHE	A	234	3.429	5.190	39.837	1.00	0.00
ATOM	2090	CD1	PHE	A	234	2.096	4.850	39.647	1.00	0.01
ATOM	2091	CE1	PHE	A	234	1.587	4.724	38.363	1.00	0.00
ATOM	2092	CZ	PHE	A	234	2.411	4.934	37.266	1.00	0.01
ATOM	2093	CE2	PHE	A	234	3.746	5.268	37.454	1.00	0.01
ATOM	2094	CD2	PHE	A	234	4.256	5.393	38.739	1.00	0.02
ATOM	2095	C	PHE	A	234	4.066	6.647	43.381	1.00	0.00
ATOM	2096	O	PHE	A	234	5.224	6.848	43.770	1.00	0.01
ATOM	2097	N	HIS	A	235	3.063	6.405	44.207	1.00	0.02
ATOM	2099	CA	HIS	A	235	3.314	6.361	45.648	1.00	0.02
ATOM	2100	CB	HIS	A	235	2.013	6.519	46.415	1.00	1.04
ATOM	2101	CG	HIS	A	235	1.497	7.939	46.502	1.00	1.51
ATOM	2102	ND1	HIS	A	235	1.991	8.923	47.275	1.00	1.88
ATOM	2104	CE1	HIS	A	235	1.267	10.045	47.085	1.00	2.58
ATOM	2105	NE2	HIS	A	235	0.298	9.759	46.186	1.00	2.75
ATOM	2106	CD2	HIS	A	235	0.426	8.463	45.820	1.00	2.28
ATOM	2107	C	HIS	A	235	3.982	5.068	46.083	1.00	0.00
ATOM	2108	O	HIS	A	235	3.392	3.983	46.015	1.00	0.02
ATOM	2109	N	LEU	A	236	5.091	5.250	46.781	1.00	0.02
ATOM	2111	CA	LEU	A	236	5.863	4.124	47.320	1.00	0.02
ATOM	2112	CB	LEU	A	236	7.182	4.676	47.855	1.00	0.19
ATOM	2113	CG	LEU	A	236	8.000	3.629	48.609	1.00	1.21
ATOM	2114	CD1	LEU	A	236	8.409	2.469	47.707	1.00	1.76
ATOM	2115	CD2	LEU	A	236	9.232	4.263	49.244	1.00	2.24
ATOM	2116	C	LEU	A	236	5.112	3.425	48.449	1.00	0.03
ATOM	2117	O	LEU	A	236	4.952	2.202	48.397	1.00	0.00
ATOM	2118	N	GLU	A	237	4.351	4.205	49.203	1.00	0.02
ATOM	2120	CA	GLU	A	237	3.569	3.650	50.314	1.00	0.02
ATOM	2121	CB	GLU	A	237	3.304	4.726	51.378	1.00	0.45
ATOM	2122	CG	GLU	A	237	2.108	5.650	51.104	1.00	1.07
ATOM	2123	CD	GLU	A	237	2.452	6.916	50.324	1.00	1.99
ATOM	2124	OE1	GLU	A	237	3.332	6.858	49.468	1.00	2.71
ATOM	2125	OE2	GLU	A	237	1.787	7.917	50.546	1.00	2.42
ATOM	2126	C	GLU	A	237	2.244	3.028	49.856	1.00	0.02
ATOM	2127	O	GLU	A	237	1.503	2.497	50.688	1.00	0.02
ATOM	2128	N	TYR	A	238	1.938	3.109	48.569	1.00	0.00
ATOM	2130	CA	TYR	A	238	0.737	2.466	48.039	1.00	0.02

ATOM	2131	CB	TYR	A	238	-0.174	3.500	47.384	1.00	0.46
ATOM	2132	CG	TYR	A	238	-0.787	4.495	48.369	1.00	0.77
ATOM	2133	CD1	TYR	A	238	-0.917	5.831	48.014	1.00	1.12
ATOM	2134	CE1	TYR	A	238	-1.456	6.742	48.912	1.00	1.60
ATOM	2135	CZ	TYR	A	238	-1.873	6.310	50.164	1.00	1.80
ATOM	2136	OH	TYR	A	238	-2.344	7.224	51.080	1.00	2.33
ATOM	2137	CE2	TYR	A	238	-1.765	4.971	50.517	1.00	1.57
ATOM	2138	CD2	TYR	A	238	-1.225	4.062	49.616	1.00	1.05
ATOM	2139	C	TYR	A	238	1.119	1.366	47.054	1.00	0.00
ATOM	2140	O	TYR	A	238	0.241	0.775	46.413	1.00	0.02
ATOM	2141	N	THR	A	239	2.411	1.101	46.939	1.00	0.02
ATOM	2143	CA	THR	A	239	2.892	0.016	46.077	1.00	0.00
ATOM	2144	CB	THR	A	239	4.306	0.340	45.605	1.00	0.02
ATOM	2145	OG1	THR	A	239	4.256	1.575	44.907	1.00	0.02
ATOM	2146	CG2	THR	A	239	4.853	-0.712	44.644	1.00	0.02
ATOM	2147	C	THR	A	239	2.869	-1.310	46.835	1.00	0.02
ATOM	2148	O	THR	A	239	3.879	-1.773	47.378	1.00	0.02
ATOM	2149	N	ARG	A	240	1.701	-1.926	46.830	1.00	0.02
ATOM	2151	CA	ARG	A	240	1.484	-3.175	47.567	1.00	0.00
ATOM	2152	CB	ARG	A	240	0.013	-3.242	47.963	1.00	0.53
ATOM	2153	CG	ARG	A	240	-0.451	-1.955	48.637	1.00	0.68
ATOM	2154	CD	ARG	A	240	0.259	-1.704	49.964	1.00	1.22
ATOM	2155	NE	ARG	A	240	-0.136	-0.396	50.506	1.00	1.14
ATOM	2156	CZ	ARG	A	240	-0.871	-0.252	51.611	1.00	1.24
ATOM	2157	NH1	ARG	A	240	-1.252	-1.327	52.305	1.00	1.79
ATOM	2158	NH2	ARG	A	240	-1.204	0.969	52.035	1.00	1.15
ATOM	2159	C	ARG	A	240	1.806	-4.367	46.681	1.00	0.00
ATOM	2160	O	ARG	A	240	2.199	-4.194	45.524	1.00	0.00
ATOM	2161	N	LYS	A	241	1.732	-5.561	47.238	1.00	0.02
ATOM	2163	CA	LYS	A	241	1.793	-6.760	46.396	1.00	0.02
ATOM	2164	CB	LYS	A	241	2.509	-7.886	47.126	1.00	0.27
ATOM	2165	CG	LYS	A	241	3.960	-7.513	47.403	1.00	0.53
ATOM	2166	CD	LYS	A	241	4.703	-8.662	48.071	1.00	0.54
ATOM	2167	CE	LYS	A	241	4.032	-9.067	49.378	1.00	1.44
ATOM	2168	NZ	LYS	A	241	4.749	-	50.010	1.00	1.70
							10.187			
ATOM	2169	C	LYS	A	241	0.367	-7.161	46.039	1.00	0.02
ATOM	2170	O	LYS	A	241	-0.196	-8.108	46.602	1.00	0.02
ATOM	2171	N	ASN	A	242	-0.136	-6.506	45.008	1.00	0.02
ATOM	2173	CA	ASN	A	242	-1.561	-6.535	44.658	1.00	0.02
ATOM	2174	CB	ASN	A	242	-1.762	-5.487	43.562	1.00	1.70
ATOM	2175	CG	ASN	A	242	-3.225	-5.103	43.344	1.00	2.00
ATOM	2176	OD1	ASN	A	242	-3.967	-4.883	44.308	1.00	2.32
ATOM	2177	ND2	ASN	A	242	-3.654	-5.174	42.095	1.00	2.72
ATOM	2180	C	ASN	A	242	-2.005	-7.912	44.173	1.00	0.01
ATOM	2181	O	ASN	A	242	-1.179	-8.820	43.981	1.00	0.01
ATOM	2182	N	PHE	A	243	-3.317	-8.093	44.170	1.00	1.09
ATOM	2184	CA	PHE	A	243	-3.948	-9.270	43.575	1.00	1.45
ATOM	2185	CB	PHE	A	243	-5.448	-9.023	43.445	1.00	1.44
ATOM	2186	CG	PHE	A	243	-6.191	-9.068	44.777	1.00	2.03
ATOM	2187	CD1	PHE	A	243	-6.608	-7.895	45.395	1.00	2.31
ATOM	2188	CE1	PHE	A	243	-7.282	-7.952	46.608	1.00	3.15
ATOM	2189	CZ	PHE	A	243	-7.543	-9.181	47.201	1.00	3.65
ATOM	2190	CE2	PHE	A	243	-7.132	-	46.581	1.00	3.50
							10.353			
ATOM	2191	CD2	PHE	A	243	-6.457	-	45.368	1.00	2.79
							10.296			
ATOM	2192	C	PHE	A	243	-3.329	-9.557	42.216	1.00	0.50

ATOM	2193	O	PHE	A	243	-3.162	-8.676	41.360	1.00	1.04
ATOM	2194	N	PRO	A	244	-2.972	-10.818	42.071	1.00	0.02
ATOM	2195	CA	PRO	A	244	-1.824	-11.208	41.251	1.00	0.02
ATOM	2196	CB	PRO	A	244	-1.664	-12.670	41.499	1.00	2.44
ATOM	2197	CG	PRO	A	244	-2.608	-13.120	42.597	1.00	2.19
ATOM	2198	CD	PRO	A	244	-3.365	-11.877	43.005	1.00	1.42
ATOM	2199	C	PRO	A	244	-1.952	-10.906	39.761	1.00	0.02
ATOM	2200	O	PRO	A	244	-3.037	-10.632	39.229	1.00	0.02
ATOM	2201	N	PHE	A	245	-0.795	-10.898	39.123	1.00	0.02
ATOM	2203	CA	PHE	A	245	-0.678	-10.695	37.682	1.00	0.02
ATOM	2204	CB	PHE	A	245	0.806	-10.487	37.372	1.00	0.02
ATOM	2205	CG	PHE	A	245	1.133	-9.809	36.043	1.00	0.01
ATOM	2206	CD1	PHE	A	245	1.229	-10.552	34.874	1.00	0.02
ATOM	2207	CE1	PHE	A	245	1.524	-9.922	33.672	1.00	0.01
ATOM	2208	CZ	PHE	A	245	1.728	-8.549	33.638	1.00	0.02
ATOM	2209	CE2	PHE	A	245	1.637	-7.806	34.807	1.00	0.01
ATOM	2210	CD2	PHE	A	245	1.342	-8.436	36.009	1.00	0.01
ATOM	2211	C	PHE	A	245	-1.194	-11.935	36.960	1.00	0.02
ATOM	2212	O	PHE	A	245	-0.890	-13.073	37.344	1.00	0.00
ATOM	2213	N	LEU	A	246	-1.993	-11.701	35.938	1.00	0.01
ATOM	2215	CA	LEU	A	246	-2.559	-12.782	35.137	1.00	0.02
ATOM	2216	CB	LEU	A	246	-3.901	-12.339	34.565	1.00	0.69
ATOM	2217	CG	LEU	A	246	-4.970	-12.241	35.646	1.00	1.13
ATOM	2218	CD1	LEU	A	246	-6.254	-11.634	35.093	1.00	1.59
ATOM	2219	CD2	LEU	A	246	-5.247	-13.611	36.252	1.00	1.37
ATOM	2220	C	LEU	A	246	-1.623	-13.147	33.996	1.00	0.02
ATOM	2221	O	LEU	A	246	-1.581	-12.479	32.953	1.00	0.01
ATOM	2222	N	VAL	A	247	-0.891	-14.228	34.206	1.00	0.01
ATOM	2224	CA	VAL	A	247	-0.023	-14.756	33.151	1.00	0.02
ATOM	2225	CB	VAL	A	247	1.315	-15.191	33.749	1.00	0.02
ATOM	2226	CG1	VAL	A	247	1.981	-14.005	34.430	1.00	0.01
ATOM	2227	CG2	VAL	A	247	1.180	-16.337	34.742	1.00	0.01
ATOM	2228	C	VAL	A	247	-0.762	-	32.457	1.00	0.01

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ATOM	2229	O	VAL	A	247	-0.391	15.897			
ATOM	2230	N	GLY	A	248	-1.841	-16.365	31.374	1.00	0.00
ATOM	2232	CA	GLY	A	248	-2.850	-16.299	33.106	1.00	0.01
ATOM	2233	C	GLY	A	248	-4.164	-17.181	32.524	1.00	0.02
ATOM	2234	O	GLY	A	248	-4.136	-16.776	33.173	1.00	0.01
ATOM	2235	N	GLU	A	249	-5.279	-16.141	34.233	1.00	0.02
ATOM	2237	CA	GLU	A	249	-6.581	-17.290	32.682	1.00	0.02
ATOM	2238	CB	GLU	A	249	-6.581	-16.870	33.231	1.00	0.02
ATOM	2239	CG	GLU	A	249	-7.684	-17.300	32.272	1.00	0.71
ATOM	2239	CG	GLU	A	249	-7.580	-16.561	30.942	1.00	1.41
ATOM	2240	CD	GLU	A	249	-8.624	-17.099	29.972	1.00	1.73
ATOM	2241	OE1	GLU	A	249	-9.040	-16.345	29.104	1.00	2.08
ATOM	2242	OE2	GLU	A	249	-8.886	-18.292	30.041	1.00	2.14
ATOM	2243	C	GLU	A	249	-6.854	-17.455	34.619	1.00	0.02
ATOM	2244	O	GLU	A	249	-7.601	-16.869	35.408	1.00	0.02
ATOM	2245	N	GLN	A	250	-6.197	-18.560	34.932	1.00	0.01
ATOM	2247	CA	GLN	A	250	-6.243	-19.117	36.285	1.00	0.02
ATOM	2248	CB	GLN	A	250	-6.843	-20.516	36.228	1.00	0.06
ATOM	2249	CG	GLN	A	250	-8.295	-20.469	35.763	1.00	0.43
ATOM	2250	CD	GLN	A	250	-8.850	-21.881	35.628	1.00	0.27
ATOM	2251	OE1	GLN	A	250	-10.050	-22.080	35.409	1.00	0.98
ATOM	2252	NE2	GLN	A	250	-7.959	-22.849	35.739	1.00	1.30
ATOM	2255	C	GLN	A	250	-4.843	-19.169	36.893	1.00	0.01
ATOM	2256	O	GLN	A	250	-4.630	-19.809	37.928	1.00	0.01
ATOM	2257	N	VAL	A	251	-3.893	-18.537	36.222	1.00	0.01
ATOM	2259	CA	VAL	A	251	-2.492	-18.612	36.650	1.00	0.00
ATOM	2260	CB	VAL	A	251	-1.642	-19.165	35.509	1.00	0.50
ATOM	2261	CG1	VAL	A	251	-0.215	-19.426	35.978	1.00	0.57
ATOM	2262	CG2	VAL	A	251	-2.244	-20.448	34.946	1.00	0.85
ATOM	2263	C	VAL	A	251	-2.006	-17.224	37.055	1.00	0.01

ATOM	2264	O	VAL	A	251	-1.695	-16.371	36.209	1.00	0.01
ATOM	2265	N	THR	A	252	-1.927	-17.035	38.360	1.00	0.02
ATOM	2267	CA	THR	A	252	-1.641	-15.716	38.930	1.00	0.01
ATOM	2268	CB	THR	A	252	-2.806	-15.364	39.849	1.00	0.02
ATOM	2269	OG1	THR	A	252	-2.848	-16.297	40.921	1.00	0.01
ATOM	2270	CG2	THR	A	252	-4.150	-15.403	39.133	1.00	0.01
ATOM	2271	C	THR	A	252	-0.323	-15.655	39.714	1.00	0.02
ATOM	2272	O	THR	A	252	-0.042	-16.495	40.577	1.00	0.01
ATOM	2273	N	VAL	A	253	0.467	-14.638	39.408	1.00	0.02
ATOM	2275	CA	VAL	A	253	1.739	-14.387	40.116	1.00	0.00
ATOM	2276	CB	VAL	A	253	2.866	-14.411	39.084	1.00	0.01
ATOM	2277	CG1	VAL	A	253	4.217	-14.060	39.701	1.00	0.03
ATOM	2278	CG2	VAL	A	253	2.941	-15.761	38.378	1.00	0.02
ATOM	2279	C	VAL	A	253	1.714	-13.024	40.816	1.00	0.01
ATOM	2280	O	VAL	A	253	1.586	-11.997	40.144	1.00	0.02
ATOM	2281	N	GLN	A	254	1.809	-12.998	42.138	1.00	0.03
ATOM	2283	CA	GLN	A	254	1.732	-11.706	42.847	1.00	0.02
ATOM	2284	CB	GLN	A	254	1.677	-11.901	44.354	1.00	0.41
ATOM	2285	CG	GLN	A	254	0.309	-12.401	44.789	1.00	0.84
ATOM	2286	CD	GLN	A	254	0.199	-12.319	46.305	1.00	0.68
ATOM	2287	OE1	GLN	A	254	0.343	-13.328	47.005	1.00	0.68
ATOM	2288	NE2	GLN	A	254	-0.051	-11.115	46.791	1.00	1.21
ATOM	2291	C	GLN	A	254	2.892	-10.780	42.504	1.00	0.02
ATOM	2292	O	GLN	A	254	4.053	-11.191	42.424	1.00	0.03
ATOM	2293	N	VAL	A	255	2.537	-9.531	42.253	1.00	0.02
ATOM	2295	CA	VAL	A	255	3.523	-8.525	41.852	1.00	0.02
ATOM	2296	CB	VAL	A	255	3.330	-8.225	40.364	1.00	0.02
ATOM	2297	CG1	VAL	A	255	3.834	-9.361	39.482	1.00	0.02
ATOM	2298	CG2	VAL	A	255	1.877	-7.899	40.047	1.00	0.00
ATOM	2299	C	VAL	A	255	3.387	-7.241	42.668	1.00	0.02
ATOM	2300	O	VAL	A	255	2.295	-6.890	43.135	1.00	0.02
ATOM	2301	N	PRO	A	256	4.516	-6.581	42.876	1.00	0.02
ATOM	2302	CA	PRO	A	256	4.504	-5.197	43.353	1.00	0.02
ATOM	2303	CB	PRO	A	256	5.943	-4.796	43.459	1.00	0.02
ATOM	2304	CG	PRO	A	256	6.815	-5.925	42.928	1.00	0.00

ATOM	2305	CD	PRO	A	256	5.862	-7.035	42.515	1.00	0.02
ATOM	2306	C	PRO	A	256	3.748	-4.321	42.364	1.00	0.01
ATOM	2307	O	PRO	A	256	3.983	-4.375	41.151	1.00	0.01
ATOM	2308	N	MET	A	257	2.817	-3.551	42.888	1.00	0.02
ATOM	2310	CA	MET	A	257	1.925	-2.748	42.055	1.00	0.02
ATOM	2311	CB	MET	A	257	0.534	-3.335	42.232	1.00	0.01
ATOM	2312	CG	MET	A	257	-0.443	-2.884	41.158	1.00	0.02
ATOM	2313	SD	MET	A	257	-0.238	-3.681	39.550	1.00	0.02
ATOM	2314	CE	MET	A	257	-0.635	-5.384	39.996	1.00	0.02
ATOM	2315	C	MET	A	257	1.902	-1.296	42.515	1.00	0.00
ATOM	2316	O	MET	A	257	1.417	-0.989	43.610	1.00	0.02
ATOM	2317	N	MET	A	258	2.382	-0.413	41.659	1.00	0.01
ATOM	2319	CA	MET	A	258	2.388	1.020	41.954	1.00	0.02
ATOM	2320	CB	MET	A	258	3.323	1.701	40.968	1.00	0.01
ATOM	2321	CG	MET	A	258	4.699	1.054	40.968	1.00	0.01
ATOM	2322	SD	MET	A	258	5.891	1.774	39.818	1.00	0.01
ATOM	2323	CE	MET	A	258	4.983	1.573	38.271	1.00	0.00
ATOM	2324	C	MET	A	258	0.990	1.600	41.788	1.00	0.02
ATOM	2325	O	MET	A	258	0.451	1.661	40.674	1.00	0.02
ATOM	2326	N	HIS	A	259	0.397	1.948	42.917	1.00	0.01
ATOM	2328	CA	HIS	A	259	-0.940	2.541	42.928	1.00	0.01
ATOM	2329	CB	HIS	A	259	-1.625	2.053	44.202	1.00	0.78
ATOM	2330	CG	HIS	A	259	-3.078	2.437	44.412	1.00	1.36
ATOM	2331	ND1	HIS	A	259	-3.735	2.391	45.585	1.00	2.20
ATOM	2333	CE1	HIS	A	259	-5.007	2.802	45.401	1.00	2.85
ATOM	2334	NE2	HIS	A	259	-5.158	3.092	44.089	1.00	2.78
ATOM	2335	CD2	HIS	A	259	-3.981	2.861	43.465	1.00	2.13
ATOM	2336	C	HIS	A	259	-0.868	4.069	42.871	1.00	0.02
ATOM	2337	O	HIS	A	259	-0.052	4.713	43.548	1.00	0.02
ATOM	2338	N	GLN	A	260	-1.628	4.609	41.932	1.00	0.02
ATOM	2340	CA	GLN	A	260	-1.776	6.062	41.789	1.00	0.01
ATOM	2341	CB	GLN	A	260	-0.553	6.614	41.061	1.00	1.24
ATOM	2342	CG	GLN	A	260	-0.607	8.123	40.842	1.00	1.25
ATOM	2343	CD	GLN	A	260	-0.738	8.894	42.150	1.00	2.10
ATOM	2344	OE1	GLN	A	260	-1.835	8.996	42.716	1.00	2.67
ATOM	2345	NE2	GLN	A	260	0.355	9.512	42.553	1.00	2.69
ATOM	2348	C	GLN	A	260	-3.068	6.411	41.041	1.00	0.00
ATOM	2349	O	GLN	A	260	-3.191	6.194	39.829	1.00	0.01
ATOM	2350	N	LYS	A	261	-4.002	7.002	41.764	1.00	0.02
ATOM	2352	CA	LYS	A	261	-5.294	7.379	41.178	1.00	0.02
ATOM	2353	CB	LYS	A	261	-6.387	7.054	42.190	1.00	0.88
ATOM	2354	CG	LYS	A	261	-7.778	7.356	41.645	1.00	1.64
ATOM	2355	CD	LYS	A	261	-8.854	6.981	42.655	1.00	1.70
ATOM	2356	CE	LYS	A	261	-8.691	7.763	43.953	1.00	2.39
ATOM	2357	NZ	LYS	A	261	-9.741	7.398	44.917	1.00	2.92
ATOM	2358	C	LYS	A	261	-5.314	8.869	40.840	1.00	0.01
ATOM	2359	O	LYS	A	261	-5.677	9.699	41.681	1.00	0.01
ATOM	2360	N	GLU	A	262	-4.938	9.203	39.614	1.00	0.01
ATOM	2362	CA	GLU	A	262	-4.815	10.622	39.243	1.00	0.02
ATOM	2363	CB	GLU	A	262	-3.393	11.113	39.505	1.00	2.06
ATOM	2364	CG	GLU	A	262	-3.157	11.543	40.951	1.00	2.79
ATOM	2365	CD	GLU	A	262	-1.797	12.217	41.042	1.00	3.90
ATOM	2366	OE1	GLU	A	262	-1.315	12.623	39.987	1.00	4.49
ATOM	2367	OE2	GLU	A	262	-1.267	12.349	42.137	1.00	4.34
ATOM	2368	C	GLU	A	262	-5.178	10.992	37.802	1.00	0.02
ATOM	2369	O	GLU	A	262	-6.034	10.391	37.145	1.00	0.00
ATOM	2370	N	GLN	A	263	-4.375	11.934	37.326	1.00	0.01
ATOM	2372	CA	GLN	A	263	-4.570	12.772	36.122	1.00	0.00

ATOM	2373	CB	GLN	A	263	-3.615	13.938	36.349	1.00	1.50
ATOM	2374	CG	GLN	A	263	-2.219	13.357	36.596	1.00	2.17
ATOM	2375	CD	GLN	A	263	-1.135	14.425	36.683	1.00	3.16
ATOM	2376	OE1	GLN	A	263	-0.815	15.081	35.688	1.00	3.64
ATOM	2377	NE2	GLN	A	263	-0.508	14.507	37.845	1.00	3.93
ATOM	2380	C	GLN	A	263	-4.159	12.182	34.770	1.00	0.02
ATOM	2381	O	GLN	A	263	-3.864	12.951	33.851	1.00	0.01
ATOM	2382	N	PHE	A	264	-4.137	10.874	34.627	1.00	0.02
ATOM	2384	CA	PHE	A	264	-3.383	10.288	33.515	1.00	0.01
ATOM	2385	CB	PHE	A	264	-3.114	8.840	33.871	1.00	0.00
ATOM	2386	CG	PHE	A	264	-2.376	8.716	35.193	1.00	0.02
ATOM	2387	CD1	PHE	A	264	-1.090	9.220	35.307	1.00	0.00
ATOM	2388	CE1	PHE	A	264	-0.408	9.118	36.509	1.00	0.01
ATOM	2389	CZ	PHE	A	264	-1.017	8.520	37.601	1.00	0.00
ATOM	2390	CE2	PHE	A	264	-2.311	8.034	37.494	1.00	0.01
ATOM	2391	CD2	PHE	A	264	-2.995	8.137	36.292	1.00	0.02
ATOM	2392	C	PHE	A	264	-4.063	10.395	32.156	1.00	0.02
ATOM	2393	O	PHE	A	264	-5.282	10.242	32.023	1.00	0.00
ATOM	2394	N	ALA	A	265	-3.256	10.726	31.160	1.00	0.02
ATOM	2396	CA	ALA	A	265	-3.737	10.764	29.778	1.00	0.01
ATOM	2397	CB	ALA	A	265	-2.667	11.385	28.888	1.00	0.49
ATOM	2398	C	ALA	A	265	-4.049	9.342	29.339	1.00	0.01
ATOM	2399	O	ALA	A	265	-3.198	8.446	29.443	1.00	0.01
ATOM	2400	N	PHE	A	266	-5.265	9.141	28.868	1.00	0.01
ATOM	2402	CA	PHE	A	266	-5.734	7.775	28.640	1.00	0.01
ATOM	2403	CB	PHE	A	266	-6.156	7.234	30.003	1.00	1.51
ATOM	2404	CG	PHE	A	266	-6.592	5.776	30.027	1.00	1.98
ATOM	2405	CD1	PHE	A	266	-5.645	4.769	29.916	1.00	2.64
ATOM	2406	CE1	PHE	A	266	-6.042	3.441	29.929	1.00	3.43
ATOM	2407	CZ	PHE	A	266	-7.386	3.122	30.058	1.00	3.64
ATOM	2408	CE2	PHE	A	266	-8.332	4.128	30.183	1.00	3.15
ATOM	2409	CD2	PHE	A	266	-7.933	5.455	30.172	1.00	2.32
ATOM	2410	C	PHE	A	266	-6.904	7.704	27.665	1.00	0.01
ATOM	2411	O	PHE	A	266	-7.866	8.475	27.754	1.00	0.01
ATOM	2412	N	GLY	A	267	-6.821	6.749	26.755	1.00	0.01
ATOM	2414	CA	GLY	A	267	-7.928	6.507	25.824	1.00	0.00
ATOM	2415	C	GLY	A	267	-8.132	5.019	25.554	1.00	0.01
ATOM	2416	O	GLY	A	267	-7.181	4.231	25.560	1.00	0.01
ATOM	2417	N	VAL	A	268	-9.381	4.625	25.392	1.00	0.00
ATOM	2419	CA	VAL	A	268	-9.668	3.233	25.027	1.00	0.01
ATOM	2420	CB	VAL	A	268	-	2.778	25.676	1.00	0.65
ATOM	2421	CG1	VAL	A	268	-	1.348	25.270	1.00	0.75
ATOM	2422	CG2	VAL	A	268	-	2.887	27.194	1.00	0.82
ATOM	2423	C	VAL	A	268	-9.748	3.112	23.508	1.00	0.01
ATOM	2424	O	VAL	A	268	-	3.521	22.871	1.00	0.01
ATOM	2425	N	ASP	A	269	-8.692	2.563	22.940	1.00	0.01
ATOM	2427	CA	ASP	A	269	-8.605	2.409	21.493	1.00	0.00
ATOM	2428	CB	ASP	A	269	-7.123	2.419	21.123	1.00	0.44
ATOM	2429	CG	ASP	A	269	-6.905	2.536	19.616	1.00	0.29
ATOM	2430	OD1	ASP	A	269	-6.024	3.277	19.222	1.00	0.56
ATOM	2431	OD2	ASP	A	269	-7.593	1.833	18.883	1.00	0.37
ATOM	2432	C	ASP	A	269	-9.270	1.096	21.091	1.00	0.01
ATOM	2433	O	ASP	A	269	-8.686	0.017	21.240	1.00	0.01
ATOM	2434	N	THR	A	270	-	1.211	20.369	1.00	0.00

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ATOM	2436	CA	THR	A	270	- 11.141	0.021	19.977	1.00	0.01
ATOM	2437	CB	THR	A	270	- 12.550	0.481	19.617	1.00	0.50
ATOM	2438	OG1	THR	A	270	- 13.085	1.154	20.750	1.00	0.86
ATOM	2439	CG2	THR	A	270	- 13.474	-0.684	19.282	1.00	1.61
ATOM	2440	C	THR	A	270	- 10.521	-0.760	18.810	1.00	0.00
ATOM	2441	O	THR	A	270	- 10.683	-1.983	18.756	1.00	0.01
ATOM	2442	N	GLU	A	271	-9.583	-0.147	18.105	1.00	0.01
ATOM	2444	CA	GLU	A	271	-8.892	-0.832	17.005	1.00	0.00
ATOM	2445	CB	GLU	A	271	-8.414	0.220	16.012	1.00	0.34
ATOM	2446	CG	GLU	A	271	-9.585	1.034	15.473	1.00	0.93
ATOM	2447	CD	GLU	A	271	-9.085	2.127	14.536	1.00	0.82
ATOM	2448	OE1	GLU	A	271	-8.023	1.944	13.958	1.00	0.84
ATOM	2449	OE2	GLU	A	271	-9.733	3.165	14.488	1.00	1.00
ATOM	2450	C	GLU	A	271	-7.696	-1.638	17.517	1.00	0.01
ATOM	2451	O	GLU	A	271	-7.262	-2.594	16.869	1.00	0.01
ATOM	2452	N	LEU	A	272	-7.251	-1.310	18.721	1.00	0.00
ATOM	2454	CA	LEU	A	272	-6.228	-2.101	19.418	1.00	0.01
ATOM	2455	CB	LEU	A	272	-5.293	-1.154	20.163	1.00	0.01
ATOM	2456	CG	LEU	A	272	-4.450	-0.309	19.215	1.00	0.00
ATOM	2457	CD1	LEU	A	272	-3.644	0.734	19.982	1.00	0.00
ATOM	2458	CD2	LEU	A	272	-3.523	-1.188	18.386	1.00	0.01
ATOM	2459	C	LEU	A	272	-6.896	-3.040	20.418	1.00	0.01
ATOM	2460	O	LEU	A	272	-6.260	-3.935	20.987	1.00	0.00
ATOM	2461	N	ASN	A	273	-8.204	-2.877	20.518	1.00	0.01
ATOM	2463	CA	ASN	A	273	-9.056	-3.573	21.475	1.00	0.01
ATOM	2464	CB	ASN	A	273	-9.106	-5.052	21.124	1.00	0.59
ATOM	2465	CG	ASN	A	273	- 10.529	-5.554	21.328	1.00	1.61
ATOM	2466	OD1	ASN	A	273	- 11.218	-5.159	22.278	1.00	2.19
ATOM	2467	ND2	ASN	A	273	- 10.962	-6.398	20.411	1.00	2.30
ATOM	2470	C	ASN	A	273	-8.580	-3.367	22.908	1.00	0.01
ATOM	2471	O	ASN	A	273	-7.951	-4.275	23.470	1.00	0.01
ATOM	2472	N	CYS	A	274	-8.633	-2.102	23.321	1.00	0.01
ATOM	2474	CA	CYS	A	274	-8.541	-1.636	24.728	1.00	0.00
ATOM	2475	CB	CYS	A	274	-8.367	-2.729	25.774	1.00	0.97
ATOM	2476	SG	CYS	A	274	-9.906	-3.343	26.496	1.00	2.23
ATOM	2477	C	CYS	A	274	-7.560	-0.496	25.011	1.00	0.01
ATOM	2478	O	CYS	A	274	-7.305	0.404	24.202	1.00	0.01
ATOM	2479	N	PHE	A	275	-7.079	-0.543	26.240	1.00	0.01
ATOM	2481	CA	PHE	A	275	-6.541	0.622	26.959	1.00	0.01
ATOM	2482	CB	PHE	A	275	-6.426	0.196	28.420	1.00	0.85
ATOM	2483	CG	PHE	A	275	-7.696	-0.445	28.981	1.00	1.11
ATOM	2484	CD1	PHE	A	275	-8.913	0.223	28.910	1.00	1.88
ATOM	2485	CE1	PHE	A	275	- 10.064	-0.374	29.406	1.00	2.82
ATOM	2486	CZ	PHE	A	275	-9.999	-1.637	29.980	1.00	2.95
ATOM	2487	CE2	PHE	A	275	-8.782	-2.300	30.062	1.00	2.21
ATOM	2488	CD2	PHE	A	275	-7.631	-1.703	29.565	1.00	1.32
ATOM	2489	C	PHE	A	275	-5.181	1.126	26.485	1.00	0.01

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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ATOM	2490	O	PHE	A	275	-4.230	0.355	26.529	1.00	0.01
ATOM	2491	N	VAL	A	276	-5.105	2.430	26.274	1.00	0.01
ATOM	2493	CA	VAL	A	276	-3.837	3.106	25.971	1.00	0.00
ATOM	2494	CB	VAL	A	276	-3.917	3.722	24.575	1.00	0.00
ATOM	2495	CG1	VAL	A	276	-2.630	4.465	24.228	1.00	0.00
ATOM	2496	CG2	VAL	A	276	-4.222	2.669	23.515	1.00	0.01
ATOM	2497	C	VAL	A	276	-3.557	4.212	26.993	1.00	0.01
ATOM	2498	O	VAL	A	276	-4.204	5.270	26.990	1.00	0.01
ATOM	2499	N	LEU	A	277	-2.644	3.919	27.905	1.00	0.00
ATOM	2501	CA	LEU	A	277	-2.197	4.899	28.908	1.00	0.00
ATOM	2502	CB	LEU	A	277	-1.933	4.135	30.206	1.00	0.01
ATOM	2503	CG	LEU	A	277	-1.598	5.042	31.386	1.00	0.01
ATOM	2504	CD1	LEU	A	277	-2.724	6.031	31.654	1.00	0.01
ATOM	2505	CD2	LEU	A	277	-1.310	4.224	32.638	1.00	0.02
ATOM	2506	C	LEU	A	277	-0.921	5.591	28.423	1.00	0.01
ATOM	2507	O	LEU	A	277	-0.067	4.944	27.808	1.00	0.01
ATOM	2508	N	GLN	A	278	-0.822	6.894	28.624	1.00	0.01
ATOM	2510	CA	GLN	A	278	0.382	7.618	28.196	1.00	0.02
ATOM	2511	CB	GLN	A	278	0.085	8.219	26.831	1.00	0.54
ATOM	2512	CG	GLN	A	278	-1.353	8.713	26.749	1.00	0.92
ATOM	2513	CD	GLN	A	278	-1.695	9.059	25.309	1.00	0.81
ATOM	2514	OE1	GLN	A	278	-1.901	8.168	24.475	1.00	1.23
ATOM	2515	NE2	GLN	A	278	-1.791	10.347	25.047	1.00	1.11
ATOM	2518	C	GLN	A	278	0.855	8.675	29.201	1.00	0.01
ATOM	2519	O	GLN	A	278	0.274	9.761	29.337	1.00	0.00
ATOM	2520	N	MET	A	279	1.957	8.353	29.860	1.00	0.01
ATOM	2522	CA	MET	A	279	2.542	9.250	30.873	1.00	0.00
ATOM	2523	CB	MET	A	279	2.636	8.492	32.190	1.00	0.02
ATOM	2524	CG	MET	A	279	1.261	8.070	32.692	1.00	0.02
ATOM	2525	SD	MET	A	279	1.280	7.035	34.170	1.00	0.02
ATOM	2526	CE	MET	A	279	2.174	5.622	33.495	1.00	0.01
ATOM	2527	C	MET	A	279	3.937	9.737	30.481	1.00	0.01
ATOM	2528	O	MET	A	279	4.822	8.939	30.155	1.00	0.01
ATOM	2529	N	ASP	A	280	4.143	11.040	30.555	1.00	0.02
ATOM	2531	CA	ASP	A	280	5.448	11.608	30.190	1.00	0.01
ATOM	2532	CB	ASP	A	280	5.233	13.052	29.725	1.00	0.60
ATOM	2533	CG	ASP	A	280	6.513	13.690	29.173	1.00	1.52
ATOM	2534	OD1	ASP	A	280	7.222	13.007	28.441	1.00	2.18
ATOM	2535	OD2	ASP	A	280	6.670	14.888	29.350	1.00	1.96
ATOM	2536	C	ASP	A	280	6.442	11.557	31.355	1.00	0.01
ATOM	2537	O	ASP	A	280	6.096	11.768	32.529	1.00	0.00
ATOM	2538	N	TYR	A	281	7.657	11.163	31.014	1.00	0.01
ATOM	2540	CA	TYR	A	281	8.799	11.244	31.924	1.00	0.01
ATOM	2541	CB	TYR	A	281	9.948	10.412	31.369	1.00	0.01
ATOM	2542	CG	TYR	A	281	9.693	8.913	31.359	1.00	0.01
ATOM	2543	CD1	TYR	A	281	9.194	8.289	32.494	1.00	0.00
ATOM	2544	CE1	TYR	A	281	8.969	6.921	32.489	1.00	0.02
ATOM	2545	CZ	TYR	A	281	9.245	6.179	31.350	1.00	0.01
ATOM	2546	OH	TYR	A	281	9.043	4.816	31.357	1.00	0.00
ATOM	2547	CE2	TYR	A	281	9.745	6.799	30.214	1.00	0.01
ATOM	2548	CD2	TYR	A	281	9.972	8.168	30.220	1.00	0.00
ATOM	2549	C	TYR	A	281	9.255	12.687	32.035	1.00	0.01
ATOM	2550	O	TYR	A	281	8.700	13.569	31.367	1.00	0.02
ATOM	2551	N	LYS	A	282	10.160	12.940	32.962	1.00	0.02
ATOM	2553	CA	LYS	A	282	10.701	14.291	33.131	1.00	0.01
ATOM	2554	CB	LYS	A	282	11.492	14.351	34.433	1.00	0.41
ATOM	2555	CG	LYS	A	282	10.586	14.149	35.641	1.00	0.84
ATOM	2556	CD	LYS	A	282	11.364	14.264	36.948	1.00	1.00

ATOM	2557	CE	LYS	A	282	10.439	14.165	38.157	1.00	1.86
ATOM	2558	NZ	LYS	A	282	11.195	14.269	39.415	1.00	2.31
ATOM	2559	C	LYS	A	282	11.602	14.667	31.963	1.00	0.01
ATOM	2560	O	LYS	A	282	12.704	14.130	31.821	1.00	0.01
ATOM	2561	N	GLY	A	283	11.108	15.543	31.106	1.00	0.01
ATOM	2563	CA	GLY	A	283	11.923	16.019	29.986	1.00	0.01
ATOM	2564	C	GLY	A	283	11.242	15.903	28.625	1.00	0.01
ATOM	2565	O	GLY	A	283	10.740	16.897	28.090	1.00	0.01
ATOM	2566	N	ASP	A	284	11.319	14.720	28.034	1.00	0.02
ATOM	2568	CA	ASP	A	284	10.847	14.535	26.654	1.00	0.01
ATOM	2569	CB	ASP	A	284	11.811	15.258	25.704	1.00	0.72
ATOM	2570	CG	ASP	A	284	13.267	14.827	25.890	1.00	0.83
ATOM	2571	OD1	ASP	A	284	13.687	13.930	25.169	1.00	1.50
ATOM	2572	OD2	ASP	A	284	13.942	15.402	26.734	1.00	1.34
ATOM	2573	C	ASP	A	284	10.690	13.068	26.243	1.00	0.01
ATOM	2574	O	ASP	A	284	11.207	12.656	25.195	1.00	0.01
ATOM	2575	N	ALA	A	285	9.862	12.330	26.963	1.00	0.01
ATOM	2577	CA	ALA	A	285	9.665	10.911	26.629	1.00	0.00
ATOM	2578	CB	ALA	A	285	10.844	10.098	27.153	1.00	0.02
ATOM	2579	C	ALA	A	285	8.362	10.354	27.198	1.00	0.01
ATOM	2580	O	ALA	A	285	8.231	10.161	28.413	1.00	0.00
ATOM	2581	N	VAL	A	286	7.444	10.020	26.310	1.00	0.01
ATOM	2583	CA	VAL	A	286	6.142	9.503	26.737	1.00	0.01
ATOM	2584	CB	VAL	A	286	5.077	9.989	25.761	1.00	0.25
ATOM	2585	CG1	VAL	A	286	3.682	9.553	26.198	1.00	0.48
ATOM	2586	CG2	VAL	A	286	5.129	11.505	25.621	1.00	0.75
ATOM	2587	C	VAL	A	286	6.148	7.978	26.791	1.00	0.01
ATOM	2588	O	VAL	A	286	6.418	7.298	25.793	1.00	0.00
ATOM	2589	N	ALA	A	287	5.878	7.456	27.974	1.00	0.01
ATOM	2591	CA	ALA	A	287	5.757	6.012	28.160	1.00	0.01
ATOM	2592	CB	ALA	A	287	6.195	5.658	29.573	1.00	0.00
ATOM	2593	C	ALA	A	287	4.316	5.565	27.945	1.00	0.01
ATOM	2594	O	ALA	A	287	3.404	5.909	28.713	1.00	0.00
ATOM	2595	N	PHE	A	288	4.123	4.857	26.849	1.00	0.01
ATOM	2597	CA	PHE	A	288	2.825	4.271	26.525	1.00	0.01
ATOM	2598	CB	PHE	A	288	2.663	4.190	25.010	1.00	0.48
ATOM	2599	CG	PHE	A	288	2.617	5.528	24.268	1.00	0.62
ATOM	2600	CD1	PHE	A	288	1.409	6.199	24.136	1.00	1.03
ATOM	2601	CE1	PHE	A	288	1.355	7.409	23.454	1.00	1.26
ATOM	2602	CZ	PHE	A	288	2.509	7.946	22.898	1.00	1.09
ATOM	2603	CE2	PHE	A	288	3.716	7.272	23.024	1.00	0.95
ATOM	2604	CD2	PHE	A	288	3.769	6.064	23.705	1.00	0.77
ATOM	2605	C	PHE	A	288	2.695	2.876	27.131	1.00	0.01
ATOM	2606	O	PHE	A	288	3.632	2.066	27.116	1.00	0.01
ATOM	2607	N	PHE	A	289	1.533	2.653	27.717	1.00	0.00
ATOM	2609	CA	PHE	A	289	1.172	1.371	28.329	1.00	0.02
ATOM	2610	CB	PHE	A	289	1.036	1.550	29.837	1.00	0.02
ATOM	2611	CG	PHE	A	289	2.351	1.838	30.553	1.00	0.02
ATOM	2612	CD1	PHE	A	289	3.146	0.780	30.970	1.00	0.01
ATOM	2613	CE1	PHE	A	289	4.347	1.026	31.621	1.00	0.01
ATOM	2614	CZ	PHE	A	289	4.754	2.331	31.853	1.00	0.00
ATOM	2615	CE2	PHE	A	289	3.958	3.391	31.439	1.00	0.02
ATOM	2616	CD2	PHE	A	289	2.755	3.145	30.793	1.00	0.01
ATOM	2617	C	PHE	A	289	-0.146	0.882	27.747	1.00	0.01
ATOM	2618	O	PHE	A	289	-1.234	1.344	28.121	1.00	0.00
ATOM	2619	N	VAL	A	290	-0.030	-0.050	26.819	1.00	0.01
ATOM	2621	CA	VAL	A	290	-1.199	-0.530	26.087	1.00	0.01
ATOM	2622	CB	VAL	A	290	-0.838	-0.588	24.608	1.00	0.18

ATOM	2623	CG1	VAL	A	290	-2.103	-0.578	25.760	1.00	0.27
ATOM	2624	CG2	VAL	A	290	0.031	0.603	24.221	1.00	0.21
ATOM	2625	C	VAL	A	290	-1.639	-1.905	26.591	1.00	0.01
ATOM	2626	O	VAL	A	290	-0.972	-2.922	26.362	1.00	0.01
ATOM	2627	N	LEU	A	291	-2.783	-1.917	27.250	1.00	0.00
ATOM	2629	CA	LEU	A	291	-3.341	-3.146	27.826	1.00	0.01
ATOM	2630	CB	LEU	A	291	-3.874	-2.824	29.219	1.00	0.01
ATOM	2631	CG	LEU	A	291	-4.424	-4.056	29.932	1.00	0.01
ATOM	2632	CD1	LEU	A	291	-3.342	-5.113	30.113	1.00	0.02
ATOM	2633	CD2	LEU	A	291	-5.021	-3.677	31.281	1.00	0.01
ATOM	2634	C	LEU	A	291	-4.474	-3.678	26.953	1.00	0.01
ATOM	2635	O	LEU	A	291	-5.575	-3.111	26.930	1.00	0.00
ATOM	2636	N	PRO	A	292	-4.194	-4.771	26.261	1.00	0.01
ATOM	2637	CA	PRO	A	292	-5.169	-5.403	25.370	1.00	0.01
ATOM	2638	CB	PRO	A	292	-4.388	-6.418	24.595	1.00	0.01
ATOM	2639	CG	PRO	A	292	-2.992	-6.534	25.186	1.00	0.01
ATOM	2640	CD	PRO	A	292	-2.916	-5.489	26.284	1.00	0.01
ATOM	2641	C	PRO	A	292	-6.287	-6.090	26.139	1.00	0.01
ATOM	2642	O	PRO	A	292	-6.165	-6.362	27.340	1.00	0.02
ATOM	2643	N	SER	A	293	-7.386	-6.324	25.445	1.00	0.01
ATOM	2645	CA	SER	A	293	-8.472	-7.139	26.000	1.00	0.01
ATOM	2646	CB	SER	A	293	-9.636	-7.190	25.017	1.00	1.05
ATOM	2647	OG	SER	A	293	-	-5.868	24.781	1.00	1.03
						10.092				
ATOM	2648	C	SER	A	293	-7.975	-8.559	26.229	1.00	0.01
ATOM	2649	O	SER	A	293	-7.012	-8.999	25.587	1.00	0.01
ATOM	2650	N	LYS	A	294	-8.613	-9.258	27.152	1.00	0.00
ATOM	2652	CA	LYS	A	294	-8.253	-	27.434	1.00	0.01
						10.655				
ATOM	2653	CB	LYS	A	294	-9.124	-	28.587	1.00	0.54
						11.140				
ATOM	2654	CG	LYS	A	294	-8.797	-	28.996	1.00	1.54
						12.572				
ATOM	2655	CD	LYS	A	294	-9.634	-	30.198	1.00	2.50
						12.990				
ATOM	2656	CE	LYS	A	294	-9.385	-	31.380	1.00	3.48
						12.059				
ATOM	2657	NZ	LYS	A	294	-	-	32.539	1.00	4.07
						10.205	12.443			
ATOM	2658	C	LYS	A	294	-8.468	-	26.199	1.00	0.01
						11.533				
ATOM	2659	O	LYS	A	294	-9.591	-	25.707	1.00	0.01
						11.681				
ATOM	2660	N	GLY	A	295	-7.360	-	25.639	1.00	0.01
						11.997				
ATOM	2662	CA	GLY	A	295	-7.391	-	24.421	1.00	0.01
						12.817				
ATOM	2663	C	GLY	A	295	-6.939	-	23.182	1.00	0.01
						12.038				
ATOM	2664	O	GLY	A	295	-6.305	-	22.281	1.00	0.01
						12.600				
ATOM	2665	N	LYS	A	296	-7.107	-	23.232	1.00	0.01
						10.726				
ATOM	2667	CA	LYS	A	296	-6.846	-9.849	22.085	1.00	0.01
ATOM	2668	CB	LYS	A	296	-7.853	-8.710	22.110	1.00	0.01
ATOM	2669	CG	LYS	A	296	-9.257	-9.233	21.840	1.00	0.01
ATOM	2670	CD	LYS	A	296	-9.341	-9.847	20.447	1.00	0.01
ATOM	2671	CE	LYS	A	296	-	-	20.138	1.00	0.00

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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ATOM	2672	NZ	LYS	A	296	10.746	10.345			
						-	-	18.773	1.00	0.01
						10.815	10.887			
ATOM	2673	C	LYS	A	296	-5.433	-9.279	22.051	1.00	0.01
ATOM	2674	O	LYS	A	296	-5.175	-8.337	21.290	1.00	0.01
ATOM	2675	N	MET	A	297	-4.504	-9.942	22.720	1.00	0.01
ATOM	2677	CA	MET	A	297	-3.123	-9.456	22.805	1.00	0.00
ATOM	2678	CB	MET	A	297	-2.353	-	23.722	1.00	0.99
							10.395			
ATOM	2679	CG	MET	A	297	-0.922	-9.920	23.947	1.00	1.52
ATOM	2680	SD	MET	A	297	0.150	-	24.780	1.00	1.96
							11.110			
ATOM	2681	CE	MET	A	297	-0.977	-	26.104	1.00	1.91
							11.607			
ATOM	2682	C	MET	A	297	-2.448	-9.451	21.439	1.00	0.01
ATOM	2683	O	MET	A	297	-1.946	-8.402	21.013	1.00	0.01
ATOM	2684	N	ARG	A	298	-2.725	-	20.655	1.00	0.01
							10.481			
ATOM	2686	CA	ARG	A	298	-2.131	-	19.323	1.00	0.01
							10.573			
ATOM	2687	CB	ARG	A	298	-2.184	-	18.874	1.00	0.22
							12.028			
ATOM	2688	CG	ARG	A	298	-1.429	-	17.567	1.00	0.84
							12.245			
ATOM	2689	CD	ARG	A	298	0.040	-	17.695	1.00	1.21
							11.853			
ATOM	2690	NE	ARG	A	298	0.759	-	16.436	1.00	1.81
							12.104			
ATOM	2691	CZ	ARG	A	298	1.716	-	15.959	1.00	2.42
							11.304			
ATOM	2692	NH1	ARG	A	298	2.319	-	14.805	1.00	3.43
							11.599			
ATOM	2693	NH2	ARG	A	298	2.068	-	16.632	1.00	2.42
							10.206			
ATOM	2694	C	ARG	A	298	-2.852	-9.676	18.318	1.00	0.01
ATOM	2695	O	ARG	A	298	-2.171	-9.052	17.497	1.00	0.01
ATOM	2696	N	GLN	A	299	-4.099	-9.330	18.599	1.00	0.01
ATOM	2698	CA	GLN	A	299	-4.825	-8.428	17.700	1.00	0.01
ATOM	2699	CB	GLN	A	299	-6.322	-8.497	17.984	1.00	0.22
ATOM	2700	CG	GLN	A	299	-7.083	-7.552	17.056	1.00	1.14
ATOM	2701	CD	GLN	A	299	-8.588	-7.630	17.297	1.00	1.84
ATOM	2702	OE1	GLN	A	299	-9.099	-7.198	18.338	1.00	2.37
ATOM	2703	NE2	GLN	A	299	-9.284	-8.196	16.326	1.00	2.56
ATOM	2706	C	GLN	A	299	-4.333	-6.997	17.881	1.00	0.01
ATOM	2707	O	GLN	A	299	-4.008	-6.348	16.877	1.00	0.01
ATOM	2708	N	LEU	A	300	-3.960	-6.671	19.110	1.00	0.01
ATOM	2710	CA	LEU	A	300	-3.388	-5.360	19.417	1.00	0.01
ATOM	2711	CB	LEU	A	300	-3.364	-5.224	20.941	1.00	0.01
ATOM	2712	CG	LEU	A	300	-2.876	-3.865	21.444	1.00	0.01
ATOM	2713	CD1	LEU	A	300	-3.619	-3.466	22.711	1.00	0.01
ATOM	2714	CD2	LEU	A	300	-1.366	-3.814	21.673	1.00	0.01
ATOM	2715	C	LEU	A	300	-1.979	-5.241	18.852	1.00	0.01
ATOM	2716	O	LEU	A	300	-1.670	-4.242	18.188	1.00	0.00
ATOM	2717	N	GLU	A	301	-1.244	-6.342	18.871	1.00	0.01
ATOM	2719	CA	GLU	A	301	0.128	-6.330	18.360	1.00	0.01
ATOM	2720	CB	GLU	A	301	0.833	-7.573	18.881	1.00	0.00
ATOM	2721	CG	GLU	A	301	0.969	-7.496	20.397	1.00	0.01
ATOM	2722	CD	GLU	A	301	1.457	-8.820	20.975	1.00	0.01

ATOM	2723	OE1	GLU	A	301	0.861	-9.838	20.645	1.00	0.01
ATOM	2724	OE2	GLU	A	301	2.301	-8.771	21.857	1.00	0.01
ATOM	2725	C	GLU	A	301	0.183	-6.273	16.835	1.00	0.00
ATOM	2726	O	GLU	A	301	1.031	-5.554	16.300	1.00	0.01
ATOM	2727	N	GLN	A	302	-0.854	-6.767	16.178	1.00	0.00
ATOM	2729	CA	GLN	A	302	-0.954	-6.664	14.717	1.00	0.01
ATOM	2730	CB	GLN	A	302	-1.851	-7.793	14.233	1.00	0.25
ATOM	2731	CG	GLN	A	302	-1.306	-9.172	14.574	1.00	0.93
ATOM	2732	CD	GLN	A	302	-2.446	-	14.418	1.00	1.50
							10.171			
ATOM	2733	OE1	GLN	A	302	-2.265	-	14.534	1.00	2.23
							11.388			
ATOM	2734	NE2	GLN	A	302	-3.632	-9.625	14.210	1.00	1.68
ATOM	2737	C	GLN	A	302	-1.588	-5.351	14.249	1.00	0.01
ATOM	2738	O	GLN	A	302	-1.615	-5.082	13.043	1.00	0.00
ATOM	2739	N	ALA	A	303	-2.109	-4.560	15.174	1.00	0.00
ATOM	2741	CA	ALA	A	303	-2.790	-3.316	14.808	1.00	0.00
ATOM	2742	CB	ALA	A	303	-4.138	-3.269	15.518	1.00	0.26
ATOM	2743	C	ALA	A	303	-1.975	-2.063	15.131	1.00	0.00
ATOM	2744	O	ALA	A	303	-2.486	-0.941	15.004	1.00	0.00
ATOM	2745	N	LEU	A	304	-0.737	-2.251	15.561	1.00	0.01
ATOM	2747	CA	LEU	A	304	0.133	-1.114	15.905	1.00	0.01
ATOM	2748	CB	LEU	A	304	1.343	-1.654	16.656	1.00	0.01
ATOM	2749	CG	LEU	A	304	0.954	-2.357	17.949	1.00	0.01
ATOM	2750	CD1	LEU	A	304	2.151	-3.094	18.536	1.00	0.00
ATOM	2751	CD2	LEU	A	304	0.366	-1.376	18.959	1.00	0.01
ATOM	2752	C	LEU	A	304	0.640	-0.360	14.674	1.00	0.01
ATOM	2753	O	LEU	A	304	1.621	-0.768	14.045	1.00	0.00
ATOM	2754	N	SER	A	305	-0.014	0.741	14.349	1.00	0.00
ATOM	2756	CA	SER	A	305	0.463	1.577	13.243	1.00	0.01
ATOM	2757	CB	SER	A	305	-0.707	2.019	12.371	1.00	0.42
ATOM	2758	OG	SER	A	305	-1.347	3.114	13.014	1.00	0.47
ATOM	2759	C	SER	A	305	1.161	2.818	13.779	1.00	0.00
ATOM	2760	O	SER	A	305	0.774	3.360	14.821	1.00	0.01
ATOM	2761	N	ALA	A	306	2.015	3.393	12.949	1.00	0.00
ATOM	2763	CA	ALA	A	306	2.696	4.636	13.326	1.00	0.01
ATOM	2764	CB	ALA	A	306	3.900	4.838	12.412	1.00	0.26
ATOM	2765	C	ALA	A	306	1.768	5.852	13.243	1.00	0.00
ATOM	2766	O	ALA	A	306	1.963	6.820	13.988	1.00	0.00
ATOM	2767	N	ARG	A	307	0.647	5.696	12.554	1.00	0.00
ATOM	2769	CA	ARG	A	307	-0.332	6.779	12.479	1.00	0.01
ATOM	2770	CB	ARG	A	307	-1.239	6.557	11.278	1.00	0.19
ATOM	2771	CG	ARG	A	307	-1.769	7.885	10.745	1.00	1.11
ATOM	2772	CD	ARG	A	307	-3.277	7.865	10.521	1.00	1.47
ATOM	2773	NE	ARG	A	307	-3.994	7.930	11.805	1.00	2.53
ATOM	2774	CZ	ARG	A	307	-4.809	6.974	12.255	1.00	3.45
ATOM	2775	NH1	ARG	A	307	-4.995	5.862	11.541	1.00	4.09
ATOM	2776	NH2	ARG	A	307	-5.419	7.122	13.432	1.00	4.06
ATOM	2777	C	ARG	A	307	-1.176	6.837	13.753	1.00	0.01
ATOM	2778	O	ARG	A	307	-1.359	7.931	14.297	1.00	0.00
ATOM	2779	N	THR	A	308	-1.485	5.692	14.349	1.00	0.01
ATOM	2781	CA	THR	A	308	-2.165	5.723	15.652	1.00	0.00
ATOM	2782	CB	THR	A	308	-2.832	4.376	15.929	1.00	0.18
ATOM	2783	OG1	THR	A	308	-1.837	3.361	15.955	1.00	0.24
ATOM	2784	CG2	THR	A	308	-3.858	4.012	14.863	1.00	0.45
ATOM	2785	C	THR	A	308	-1.187	6.045	16.780	1.00	0.01
ATOM	2786	O	THR	A	308	-1.579	6.676	17.767	1.00	0.00
ATOM	2787	N	LEU	A	309	0.093	5.852	16.514	1.00	0.01

ATOM	2789	CA	LEU	A	309	1.135	6.202	17.481	1.00	0.01
ATOM	2790	CB	LEU	A	309	2.444	5.577	17.012	1.00	0.17
ATOM	2791	CG	LEU	A	309	2.809	4.260	17.697	1.00	0.39
ATOM	2792	CD1	LEU	A	309	1.665	3.253	17.805	1.00	0.43
ATOM	2793	CD2	LEU	A	309	4.007	3.630	17.001	1.00	0.47
ATOM	2794	C	LEU	A	309	1.304	7.714	17.567	1.00	0.01
ATOM	2795	O	LEU	A	309	1.259	8.269	18.673	1.00	0.01
ATOM	2796	N	ILE	A	310	1.224	8.387	16.428	1.00	0.01
ATOM	2798	CA	ILE	A	310	1.309	9.849	16.443	1.00	0.01
ATOM	2799	CB	ILE	A	310	1.872	10.353	15.112	1.00	0.24
ATOM	2800	CG2	ILE	A	310	0.948	10.046	13.940	1.00	0.79
ATOM	2801	CG1	ILE	A	310	2.160	11.849	15.168	1.00	1.18
ATOM	2802	CD1	ILE	A	310	2.720	12.350	13.842	1.00	1.93
ATOM	2803	C	ILE	A	310	-0.043	10.487	16.783	1.00	0.01
ATOM	2804	O	ILE	A	310	-0.070	11.594	17.336	1.00	0.01
ATOM	2805	N	LYS	A	311	-1.107	9.702	16.703	1.00	0.01
ATOM	2807	CA	LYS	A	311	-2.419	10.150	17.164	1.00	0.01
ATOM	2808	CB	LYS	A	311	-3.464	9.156	16.677	1.00	0.01
ATOM	2809	CG	LYS	A	311	-4.850	9.489	17.209	1.00	0.01
ATOM	2810	CD	LYS	A	311	-5.842	8.389	16.858	1.00	0.01
ATOM	2811	CE	LYS	A	311	-7.228	8.691	17.414	1.00	0.00
ATOM	2812	NZ	LYS	A	311	-8.166	7.606	17.087	1.00	0.01
ATOM	2813	C	LYS	A	311	-2.452	10.227	18.686	1.00	0.01
ATOM	2814	O	LYS	A	311	-2.705	11.305	19.242	1.00	0.01
ATOM	2815	N	TRP	A	312	-1.911	9.206	19.329	1.00	0.01
ATOM	2817	CA	TRP	A	312	-1.874	9.211	20.789	1.00	0.01
ATOM	2818	CB	TRP	A	312	-1.702	7.784	21.291	1.00	0.26
ATOM	2819	CG	TRP	A	312	-2.941	6.939	21.080	1.00	0.93
ATOM	2820	CD1	TRP	A	312	-3.058	5.824	20.281	1.00	2.03
ATOM	2821	NE1	TRP	A	312	-4.334	5.374	20.351	1.00	2.63
ATOM	2823	CE2	TRP	A	312	-5.073	6.138	21.177	1.00	1.99
ATOM	2824	CZ2	TRP	A	312	-6.399	6.090	21.558	1.00	2.30
ATOM	2825	CH2	TRP	A	312	-6.898	7.040	22.452	1.00	1.63
ATOM	2826	CZ3	TRP	A	312	-6.068	8.027	22.958	1.00	0.98
ATOM	2827	CE3	TRP	A	312	-4.730	8.082	22.576	1.00	0.71
ATOM	2828	CD2	TRP	A	312	-4.230	7.143	21.684	1.00	0.94
ATOM	2829	C	TRP	A	312	-0.777	10.113	21.338	1.00	0.00
ATOM	2830	O	TRP	A	312	-1.025	10.794	22.338	1.00	0.01
ATOM	2831	N	SER	A	313	0.236	10.390	20.534	1.00	0.00
ATOM	2833	CA	SER	A	313	1.279	11.321	20.976	1.00	0.00
ATOM	2834	CB	SER	A	313	2.560	11.069	20.190	1.00	0.24
ATOM	2835	OG	SER	A	313	2.342	11.501	18.857	1.00	0.20
ATOM	2836	C	SER	A	313	0.882	12.796	20.830	1.00	0.01
ATOM	2837	O	SER	A	313	1.640	13.656	21.290	1.00	0.00
ATOM	2838	N	HIS	A	314	-0.245	13.105	20.200	1.00	0.01
ATOM	2840	CA	HIS	A	314	-0.728	14.488	20.258	1.00	0.01
ATOM	2841	CB	HIS	A	314	-1.012	15.063	18.869	1.00	0.13
ATOM	2842	CG	HIS	A	314	-2.195	14.499	18.103	1.00	0.18
ATOM	2843	ND1	HIS	A	314	-2.128	13.688	17.033	1.00	0.25
ATOM	2845	CE1	HIS	A	314	-3.375	13.404	16.607	1.00	0.30
ATOM	2846	NE2	HIS	A	314	-4.242	14.049	17.420	1.00	0.28
ATOM	2847	CD2	HIS	A	314	-3.530	14.737	18.340	1.00	0.22
ATOM	2848	C	HIS	A	314	-1.958	14.594	21.154	1.00	0.01
ATOM	2849	O	HIS	A	314	-2.450	15.700	21.411	1.00	0.01
ATOM	2850	N	SER	A	315	-2.462	13.456	21.603	1.00	0.01
ATOM	2852	CA	SER	A	315	-3.602	13.466	22.521	1.00	0.00
ATOM	2853	CB	SER	A	315	-4.209	12.075	22.626	1.00	1.14
ATOM	2854	OG	SER	A	315	-5.144	12.131	23.697	1.00	0.90

ATOM	2855	C	SER	A	315	-3.187	13.914	23.912	1.00	0.01
ATOM	2856	O	SER	A	315	-2.451	13.230	24.629	1.00	0.01
ATOM	2857	N	LEU	A	316	-3.759	15.029	24.321	1.00	0.00
ATOM	2859	CA	LEU	A	316	-3.489	15.563	25.654	1.00	0.01
ATOM	2860	CB	LEU	A	316	-3.311	17.071	25.509	1.00	0.88
ATOM	2861	CG	LEU	A	316	-2.537	17.664	26.682	1.00	2.18
ATOM	2862	CD1	LEU	A	316	-1.203	16.939	26.876	1.00	2.44
ATOM	2863	CD2	LEU	A	316	-2.336	19.167	26.493	1.00	3.16
ATOM	2864	C	LEU	A	316	-4.621	15.225	26.633	1.00	0.01
ATOM	2865	O	LEU	A	316	-4.649	15.755	27.750	1.00	0.01
ATOM	2866	N	GLN	A	317	-5.507	14.318	26.241	1.00	0.01
ATOM	2868	CA	GLN	A	317	-6.718	14.058	27.030	1.00	0.00
ATOM	2869	CB	GLN	A	317	-7.740	13.326	26.166	1.00	0.55
ATOM	2870	CG	GLN	A	317	-9.095	13.217	26.866	1.00	1.06
ATOM	2871	CD	GLN	A	317	-9.686	14.609	27.104	1.00	1.59
ATOM	2872	OE1	GLN	A	317	-9.231	15.360	27.973	1.00	2.10
ATOM	2873	NE2	GLN	A	317	-	14.947	26.304	1.00	2.07
						10.682				
ATOM	2876	C	GLN	A	317	-6.428	13.248	28.288	1.00	0.01
ATOM	2877	O	GLN	A	317	-6.204	12.030	28.245	1.00	0.01
ATOM	2878	N	LYS	A	318	-6.423	13.963	29.397	1.00	0.01
ATOM	2880	CA	LYS	A	318	-6.161	13.376	30.708	1.00	0.00
ATOM	2881	CB	LYS	A	318	-5.293	14.346	31.495	1.00	0.64
ATOM	2882	CG	LYS	A	318	-3.944	14.570	30.825	1.00	1.38
ATOM	2883	CD	LYS	A	318	-3.065	15.477	31.674	1.00	1.55
ATOM	2884	CE	LYS	A	318	-1.700	15.689	31.033	1.00	2.51
ATOM	2885	NZ	LYS	A	318	-0.837	16.502	31.905	1.00	3.10
ATOM	2886	C	LYS	A	318	-7.452	13.143	31.474	1.00	0.02
ATOM	2887	O	LYS	A	318	-8.345	13.997	31.492	1.00	0.01
ATOM	2888	N	ARG	A	319	-7.552	11.986	32.098	1.00	0.02
ATOM	2890	CA	ARG	A	319	-8.712	11.728	32.945	1.00	0.01
ATOM	2891	CB	ARG	A	319	-9.810	11.008	32.171	1.00	0.01
ATOM	2892	CG	ARG	A	319	-9.397	9.697	31.517	1.00	0.00
ATOM	2893	CD	ARG	A	319	-	9.150	30.774	1.00	0.00
						10.610				
ATOM	2894	NE	ARG	A	319	-	7.878	30.088	1.00	0.02
						10.350				
ATOM	2895	CZ	ARG	A	319	-	7.547	28.950	1.00	0.01
						10.965				
ATOM	2896	NH1	ARG	A	319	-	8.423	28.352	1.00	0.01
						11.774				
ATOM	2897	NH2	ARG	A	319	-	6.365	28.378	1.00	0.01
						10.727				
ATOM	2898	C	ARG	A	319	-8.346	10.999	34.231	1.00	0.02
ATOM	2899	O	ARG	A	319	-7.237	10.488	34.422	1.00	0.01
ATOM	2900	N	TRP	A	320	-9.294	11.068	35.145	1.00	0.02
ATOM	2902	CA	TRP	A	320	-9.134	10.543	36.499	1.00	0.01
ATOM	2903	CB	TRP	A	320	-	11.177	37.346	1.00	2.46
						10.232				
ATOM	2904	CG	TRP	A	320	-	12.649	37.031	1.00	3.22
						10.407				
ATOM	2905	CD1	TRP	A	320	-9.571	13.677	37.406	1.00	4.15
ATOM	2906	NE1	TRP	A	320	-	14.835	36.887	1.00	4.95
						10.048				
ATOM	2908	CE2	TRP	A	320	-	14.620	36.167	1.00	4.71
						11.170				
ATOM	2909	CZ2	TRP	A	320	-	15.453	35.399	1.00	5.57
						11.968				

ATOM	2910	CH2	TRP	A	320	-13.083	14.932	34.750	1.00	5.51
ATOM	2911	CZ3	TRP	A	320	-13.393	13.580	34.861	1.00	4.74
ATOM	2912	CE3	TRP	A	320	-12.587	12.736	35.613	1.00	3.74
ATOM	2913	CD2	TRP	A	320	-11.471	13.253	36.260	1.00	3.68
ATOM	2914	C	TRP	A	320	-9.278	9.032	36.489	1.00	0.00
ATOM	2915	O	TRP	A	320	-10.354	8.506	36.190	1.00	0.00
ATOM	2916	N	ILE	A	321	-8.172	8.350	36.720	1.00	0.01
ATOM	2918	CA	ILE	A	321	-8.166	6.881	36.726	1.00	0.00
ATOM	2919	CB	ILE	A	321	-7.656	6.390	35.378	1.00	0.72
ATOM	2920	CG2	ILE	A	321	-8.752	6.400	34.315	1.00	1.67
ATOM	2921	CG1	ILE	A	321	-6.452	7.206	34.930	1.00	1.15
ATOM	2922	CD1	ILE	A	321	-5.986	6.773	33.549	1.00	1.60
ATOM	2923	C	ILE	A	321	-7.317	6.306	37.857	1.00	0.02
ATOM	2924	O	ILE	A	321	-6.287	6.869	38.249	1.00	0.00
ATOM	2925	N	GLU	A	322	-7.732	5.140	38.323	1.00	0.01
ATOM	2927	CA	GLU	A	322	-7.086	4.466	39.461	1.00	0.02
ATOM	2928	CB	GLU	A	322	-8.198	3.733	40.205	1.00	0.75
ATOM	2929	CG	GLU	A	322	-7.735	3.098	41.508	1.00	1.32
ATOM	2930	CD	GLU	A	322	-8.891	2.309	42.108	1.00	1.58
ATOM	2931	OE1	GLU	A	322	-8.813	1.994	43.287	1.00	1.93
ATOM	2932	OE2	GLU	A	322	-9.859	2.086	41.392	1.00	1.79
ATOM	2933	C	GLU	A	322	-6.012	3.474	38.997	1.00	0.02
ATOM	2934	O	GLU	A	322	-6.201	2.254	39.077	1.00	0.02
ATOM	2935	N	VAL	A	323	-4.871	4.007	38.597	1.00	0.00
ATOM	2937	CA	VAL	A	323	-3.819	3.209	37.952	1.00	0.00
ATOM	2938	CB	VAL	A	323	-2.852	4.200	37.307	1.00	0.58
ATOM	2939	CG1	VAL	A	323	-1.511	3.597	36.913	1.00	1.12
ATOM	2940	CG2	VAL	A	323	-3.507	4.860	36.104	1.00	1.30
ATOM	2941	C	VAL	A	323	-3.095	2.236	38.885	1.00	0.02
ATOM	2942	O	VAL	A	323	-2.768	2.554	40.038	1.00	0.00
ATOM	2943	N	PHE	A	324	-2.997	1.007	38.396	1.00	0.02
ATOM	2945	CA	PHE	A	324	-2.221	-0.061	39.037	1.00	0.02
ATOM	2946	CB	PHE	A	324	-3.167	-1.200	39.409	1.00	0.70
ATOM	2947	CG	PHE	A	324	-4.225	-0.894	40.461	1.00	0.66
ATOM	2948	CD1	PHE	A	324	-3.850	-0.696	41.783	1.00	1.33
ATOM	2949	CE1	PHE	A	324	-4.815	-0.432	42.745	1.00	2.10
ATOM	2950	CZ	PHE	A	324	-6.155	-0.369	42.387	1.00	2.27
ATOM	2951	CE2	PHE	A	324	-6.531	-0.571	41.065	1.00	1.95
ATOM	2952	CD2	PHE	A	324	-5.566	-0.837	40.103	1.00	1.28
ATOM	2953	C	PHE	A	324	-1.190	-0.636	38.063	1.00	0.01
ATOM	2954	O	PHE	A	324	-1.516	-1.572	37.320	1.00	0.00
ATOM	2955	N	ILE	A	325	0.034	-0.128	38.092	1.00	0.01
ATOM	2957	CA	ILE	A	325	1.088	-0.642	37.188	1.00	0.02
ATOM	2958	CB	ILE	A	325	1.659	0.527	36.379	1.00	0.42
ATOM	2959	CG2	ILE	A	325	2.869	0.119	35.543	1.00	0.61
ATOM	2960	CG1	ILE	A	325	0.598	1.123	35.468	1.00	0.74
ATOM	2961	CD1	ILE	A	325	1.195	2.203	34.575	1.00	1.12
ATOM	2962	C	ILE	A	325	2.209	-1.345	37.961	1.00	0.02
ATOM	2963	O	ILE	A	325	2.764	-0.770	38.901	1.00	0.01
ATOM	2964	N	PRO	A	326	2.521	-2.577	37.588	1.00	0.00
ATOM	2965	CA	PRO	A	326	3.556	-3.351	38.287	1.00	0.02
ATOM	2966	CB	PRO	A	326	3.580	-4.687	37.615	1.00	0.02
ATOM	2967	CG	PRO	A	326	2.546	-4.703	36.502	1.00	0.00

2910 2911 2912 2913 2914 2915 2916 2918 2919 2920 2921 2922 2923 2924 2925 2927 2928 2929 2930 2931 2932 2933 2934 2935 2937 2938 2939 2940 2941 2942 2943 2945 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967

ATOM	2968	CD	PRO	A	326	1.890	-3.333	36.507	1.00	0.02
ATOM	2969	C	PRO	A	326	4.932	-2.683	38.260	1.00	0.00
ATOM	2970	O	PRO	A	326	5.296	-1.981	37.309	1.00	0.02
ATOM	2971	N	ARG	A	327	5.646	-2.858	39.358	1.00	0.01
ATOM	2973	CA	ARG	A	327	6.977	-2.267	39.528	1.00	0.02
ATOM	2974	CB	ARG	A	327	7.056	-1.674	40.929	1.00	0.43
ATOM	2975	CG	ARG	A	327	8.383	-0.959	41.131	1.00	1.22
ATOM	2976	CD	ARG	A	327	8.580	-0.486	42.561	1.00	1.09
ATOM	2977	NE	ARG	A	327	9.842	0.261	42.668	1.00	2.19
ATOM	2978	CZ	ARG	A	327	10.975	-0.253	43.151	1.00	2.68
ATOM	2979	NH1	ARG	A	327	12.079	0.495	43.192	1.00	3.44
ATOM	2980	NH2	ARG	A	327	11.008	-1.517	43.581	1.00	2.85
ATOM	2981	C	ARG	A	327	8.077	-3.316	39.398	1.00	0.02
ATOM	2982	O	ARG	A	327	8.186	-4.202	40.256	1.00	0.02
ATOM	2983	N	PHE	A	328	8.933	-3.157	38.399	1.00	0.02
ATOM	2985	CA	PHE	A	328	10.045	-4.102	38.206	1.00	0.01
ATOM	2986	CB	PHE	A	328	9.496	-5.484	37.861	1.00	1.21
ATOM	2987	CG	PHE	A	328	10.160	-6.623	38.635	1.00	2.16
ATOM	2988	CD1	PHE	A	328	9.523	-7.158	39.747	1.00	3.00
ATOM	2989	CE1	PHE	A	328	10.117	-8.194	40.457	1.00	3.93
ATOM	2990	CZ	PHE	A	328	11.348	-8.696	40.054	1.00	4.19
ATOM	2991	CE2	PHE	A	328	11.984	-8.161	38.942	1.00	3.65
ATOM	2992	CD2	PHE	A	328	11.390	-7.126	38.233	1.00	2.61
ATOM	2993	C	PHE	A	328	10.986	-3.651	37.091	1.00	0.01
ATOM	2994	O	PHE	A	328	10.583	-2.979	36.135	1.00	0.00
ATOM	2995	N	SER	A	329	12.254	-3.988	37.242	1.00	0.01
ATOM	2997	CA	SER	A	329	13.218	-3.718	36.176	1.00	0.01
ATOM	2998	CB	SER	A	329	14.586	-3.439	36.775	1.00	0.00
ATOM	2999	OG	SER	A	329	15.460	-3.178	35.685	1.00	0.01
ATOM	3000	C	SER	A	329	13.324	-4.900	35.215	1.00	0.02
ATOM	3001	O	SER	A	329	13.844	-5.964	35.567	1.00	0.02
ATOM	3002	N	ILE	A	330	12.857	-4.688	33.998	1.00	0.01
ATOM	3004	CA	ILE	A	330	12.930	-5.723	32.962	1.00	0.00
ATOM	3005	CB	ILE	A	330	11.662	-5.673	32.114	1.00	0.01
ATOM	3006	CG2	ILE	A	330	10.451	-6.083	32.946	1.00	0.01
ATOM	3007	CG1	ILE	A	330	11.456	-4.287	31.511	1.00	0.02
ATOM	3008	CD1	ILE	A	330	10.201	-4.238	30.646	1.00	0.00
ATOM	3009	C	ILE	A	330	14.170	-5.524	32.092	1.00	0.01
ATOM	3010	O	ILE	A	330	14.637	-4.397	31.897	1.00	0.01
ATOM	3011	N	SER	A	331	14.740	-6.622	31.631	1.00	0.01
ATOM	3013	CA	SER	A	331	15.937	-6.517	30.790	1.00	0.00
ATOM	3014	CB	SER	A	331	17.164	-6.528	31.687	1.00	0.38
ATOM	3015	OG	SER	A	331	18.286	-6.315	30.846	1.00	0.92
ATOM	3016	C	SER	A	331	16.031	-7.657	29.782	1.00	0.00
ATOM	3017	O	SER	A	331	15.846	-8.829	30.131	1.00	0.01
ATOM	3018	N	ALA	A	332	16.368	-7.307	28.552	1.00	0.02
ATOM	3020	CA	ALA	A	332	16.466	-8.314	27.494	1.00	0.01
ATOM	3021	CB	ALA	A	332	15.182	-8.277	26.679	1.00	0.17
ATOM	3022	C	ALA	A	332	17.683	-8.130	26.585	1.00	0.01
ATOM	3023	O	ALA	A	332	17.896	-7.074	25.973	1.00	0.02
ATOM	3024	N	SER	A	333	18.492	-9.175	26.538	1.00	0.02
ATOM	3026	CA	SER	A	333	19.650	-9.212	25.635	1.00	0.02
ATOM	3027	CB	SER	A	333	20.804	-9.957	26.298	1.00	0.36
ATOM	3028	OG	SER	A	333	20.418	-	26.472	1.00	1.04
							11.313			
ATOM	3029	C	SER	A	333	19.281	-9.904	24.325	1.00	0.02
ATOM	3030	O	SER	A	333	18.520	-	24.311	1.00	0.01
							10.878			

							14.229			
ATOM	3077	CB	THR	A	338	21.139	-	15.741	1.00	0.22
							15.195			
ATOM	3078	OG1	THR	A	338	20.704	-	16.881	1.00	0.83
							14.465			
ATOM	3079	CG2	THR	A	338	22.473	-	16.073	1.00	0.78
							15.854			
ATOM	3080	C	THR	A	338	19.892	-	14.238	1.00	0.01
							13.646			
ATOM	3081	O	THR	A	338	19.056	-	13.639	1.00	0.01
							14.333			
ATOM	3082	N	ILE	A	339	19.695	-	14.539	1.00	0.01
							12.372			
ATOM	3084	CA	ILE	A	339	18.391	-	14.284	1.00	0.01
							11.748			
ATOM	3085	CB	ILE	A	339	18.102	-	15.398	1.00	0.19
							10.748			
ATOM	3086	CG2	ILE	A	339	16.796	-	15.118	1.00	0.33
							10.018			
ATOM	3087	CG1	ILE	A	339	18.042	-	16.765	1.00	0.43
							11.425			
ATOM	3088	CD1	ILE	A	339	16.880	-	16.865	1.00	0.67
							12.407			
ATOM	3089	C	ILE	A	339	18.363	-	12.938	1.00	0.01
							11.030			
ATOM	3090	O	ILE	A	339	17.499	-	12.093	1.00	0.01
							11.303			
ATOM	3091	N	LEU	A	340	19.419	-	12.665	1.00	0.01
							10.289			
ATOM	3093	CA	LEU	A	340	19.487	-9.512	11.426	1.00	0.01
ATOM	3094	CB	LEU	A	340	20.616	-8.504	11.556	1.00	0.01
ATOM	3095	CG	LEU	A	340	20.352	-7.548	12.713	1.00	0.01
ATOM	3096	CD1	LEU	A	340	21.572	-6.681	12.990	1.00	0.01
ATOM	3097	CD2	LEU	A	340	19.114	-6.693	12.457	1.00	0.01
ATOM	3098	C	LEU	A	340	19.624	-	10.102	1.00	0.01
							10.296			
ATOM	3099	O	LEU	A	340	19.003	-9.791	9.156	1.00	0.01
ATOM	3100	N	PRO	A	341	20.199	-	9.987	1.00	0.01
							11.500			
ATOM	3101	CA	PRO	A	341	20.074	-	8.702	1.00	0.01
							12.210			
ATOM	3102	CB	PRO	A	341	20.942	-	8.813	1.00	0.39
							13.425			
ATOM	3103	CG	PRO	A	341	21.497	-	10.219	1.00	0.63
							13.522			
ATOM	3104	CD	PRO	A	341	20.982	-	10.948	1.00	0.66
							12.297			
ATOM	3105	C	PRO	A	341	18.642	-	8.337	1.00	0.01
							12.616			
ATOM	3106	O	PRO	A	341	18.306	-	7.150	1.00	0.01
							12.529			
ATOM	3107	N	LYS	A	342	17.752	-	9.318	1.00	0.01
							12.711			
ATOM	3109	CA	LYS	A	342	16.348	-	9.039	1.00	0.01
							13.035			
ATOM	3110	CB	LYS	A	342	15.712	-	10.325	1.00	0.97
							13.544			
ATOM	3111	CG	LYS	A	342	16.524	-	10.964	1.00	1.75
							14.662			

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ATOM	3112	CD	LYS	A	342	15.847	-15.142	12.241	1.00	2.93
ATOM	3113	CE	LYS	A	342	15.599	-13.977	13.193	1.00	3.48
ATOM	3114	NZ	LYS	A	342	14.897	-14.426	14.405	1.00	3.77
ATOM	3115	C	LYS	A	342	15.574	-11.796	8.584	1.00	0.01
ATOM	3116	O	LYS	A	342	14.480	-11.904	8.018	1.00	0.01
ATOM	3117	N	MET	A	343	16.172	-10.634	8.797	1.00	0.01
ATOM	3119	CA	MET	A	343	15.594	-9.369	8.350	1.00	0.01
ATOM	3120	CB	MET	A	343	15.740	-8.343	9.469	1.00	1.42
ATOM	3121	CG	MET	A	343	15.088	-8.823	10.762	1.00	2.03
ATOM	3122	SD	MET	A	343	13.348	-9.309	10.639	1.00	1.82
ATOM	3123	CE	MET	A	343	12.684	-7.810	9.878	1.00	2.49
ATOM	3124	C	MET	A	343	16.269	-8.851	7.079	1.00	0.01
ATOM	3125	O	MET	A	343	15.957	-7.746	6.620	1.00	0.00
ATOM	3126	N	GLY	A	344	17.237	-9.591	6.563	1.00	0.01
ATOM	3128	CA	GLY	A	344	17.883	-9.196	5.306	1.00	0.01
ATOM	3129	C	GLY	A	344	19.370	-8.887	5.460	1.00	0.01
ATOM	3130	O	GLY	A	344	20.141	-9.041	4.504	1.00	0.01
ATOM	3131	N	ILE	A	345	19.760	-8.444	6.644	1.00	0.01
ATOM	3133	CA	ILE	A	345	21.156	-8.078	6.921	1.00	0.01
ATOM	3134	CB	ILE	A	345	21.159	-7.123	8.109	1.00	0.01
ATOM	3135	CG2	ILE	A	345	22.529	-6.475	8.275	1.00	0.00
ATOM	3136	CG1	ILE	A	345	20.086	-6.054	7.943	1.00	0.01
ATOM	3137	CD1	ILE	A	345	20.083	-5.075	9.111	1.00	0.00
ATOM	3138	C	ILE	A	345	21.976	-9.320	7.271	1.00	0.00
ATOM	3139	O	ILE	A	345	22.186	-9.637	8.447	1.00	0.01
ATOM	3140	N	GLN	A	346	22.471	-9.992	6.247	1.00	0.00
ATOM	3142	CA	GLN	A	346	23.161	-11.269	6.443	1.00	0.01
ATOM	3143	CB	GLN	A	346	22.500	-12.262	5.500	1.00	1.21
ATOM	3144	CG	GLN	A	346	23.176	-13.625	5.548	1.00	1.87
ATOM	3145	CD	GLN	A	346	22.735	-14.438	4.339	1.00	2.20
ATOM	3146	OE1	GLN	A	346	21.841	-15.289	4.431	1.00	2.70
ATOM	3147	NE2	GLN	A	346	23.345	-14.135	3.205	1.00	2.46
ATOM	3150	C	GLN	A	346	24.640	-11.201	6.090	1.00	0.00
ATOM	3151	O	GLN	A	346	25.502	-11.688	6.842	1.00	0.01
ATOM	3152	N	ASN	A	347	24.938	-10.392	5.088	1.00	0.01
ATOM	3154	CA	ASN	A	347	26.273	-10.397	4.483	1.00	0.00
ATOM	3155	CB	ASN	A	347	26.212	-9.732	3.113	1.00	0.63
ATOM	3156	CG	ASN	A	347	25.547	-10.625	2.064	1.00	1.00
ATOM	3157	OD1	ASN	A	347	24.760	-11.536	2.362	1.00	1.77
ATOM	3158	ND2	ASN	A	347	25.894	-	0.820	1.00	1.70

ATOM	3199	O	LYS	A	351	34.297	-12.309	4.623	1.00	0.01
ATOM	3200	N	ASN	A	352	32.114	-12.692	3.627	1.00	0.02
ATOM	3202	CA	ASN	A	352	32.049	-11.964	2.361	1.00	0.00
ATOM	3203	CB	ASN	A	352	31.173	-12.759	1.390	1.00	0.51
ATOM	3204	CG	ASN	A	352	29.869	-13.231	2.040	1.00	1.28
ATOM	3205	OD1	ASN	A	352	29.796	-14.333	2.595	1.00	1.84
ATOM	3206	ND2	ASN	A	352	28.858	-12.381	1.990	1.00	2.06
ATOM	3209	C	ASN	A	352	31.522	-10.537	2.541	1.00	0.00
ATOM	3210	O	ASN	A	352	30.997	-9.951	1.581	1.00	0.01
ATOM	3211	N	ALA	A	353	31.494	-10.066	3.777	1.00	0.01
ATOM	3213	CA	ALA	A	353	31.074	-8.692	4.047	1.00	0.01
ATOM	3214	CB	ALA	A	353	31.097	-8.473	5.551	1.00	0.01
ATOM	3215	C	ALA	A	353	31.997	-7.683	3.379	1.00	0.01
ATOM	3216	O	ALA	A	353	33.229	-7.781	3.429	1.00	0.02
ATOM	3217	N	ASP	A	354	31.385	-6.708	2.728	1.00	0.01
ATOM	3219	CA	ASP	A	354	32.164	-5.651	2.088	1.00	0.01
ATOM	3220	CB	ASP	A	354	31.396	-5.129	0.870	1.00	0.01
ATOM	3221	CG	ASP	A	354	32.212	-4.138	0.030	1.00	0.00
ATOM	3222	OD1	ASP	A	354	32.848	-3.267	0.615	1.00	0.01
ATOM	3223	OD2	ASP	A	354	32.008	-4.141	-1.174	1.00	0.00
ATOM	3224	C	ASP	A	354	32.385	-4.542	3.103	1.00	0.00
ATOM	3225	O	ASP	A	354	31.565	-3.630	3.230	1.00	0.01
ATOM	3226	N	PHE	A	355	33.507	-4.604	3.793	1.00	0.02
ATOM	3228	CA	PHE	A	355	33.843	-3.552	4.751	1.00	0.02
ATOM	3229	CB	PHE	A	355	34.107	-4.179	6.113	1.00	1.78
ATOM	3230	CG	PHE	A	355	32.846	-4.653	6.834	1.00	2.43
ATOM	3231	CD1	PHE	A	355	32.859	-5.839	7.555	1.00	3.08
ATOM	3232	CE1	PHE	A	355	31.718	-6.265	8.221	1.00	3.90
ATOM	3233	CZ	PHE	A	355	30.559	-5.504	8.164	1.00	4.07
ATOM	3234	CE2	PHE	A	355	30.542	-4.318	7.443	1.00	3.51
ATOM	3235	CD2	PHE	A	355	31.686	-3.893	6.779	1.00	2.73
ATOM	3236	C	PHE	A	355	35.046	-2.749	4.275	1.00	0.02
ATOM	3237	O	PHE	A	355	35.975	-2.488	5.052	1.00	0.02
ATOM	3238	N	SER	A	356	34.885	-2.144	3.107	1.00	0.02
ATOM	3240	CA	SER	A	356	35.978	-1.419	2.434	1.00	0.00
ATOM	3241	CB	SER	A	356	35.684	-1.364	0.940	1.00	0.01
ATOM	3242	OG	SER	A	356	34.507	-0.591	0.750	1.00	0.01
ATOM	3243	C	SER	A	356	36.196	0.009	2.949	1.00	0.02
ATOM	3244	O	SER	A	356	37.063	0.728	2.438	1.00	0.01
ATOM	3245	N	GLY	A	357	35.391	0.425	3.912	1.00	0.00
ATOM	3247	CA	GLY	A	357	35.604	1.702	4.590	1.00	0.01
ATOM	3248	C	GLY	A	357	36.279	1.465	5.937	1.00	0.02
ATOM	3249	O	GLY	A	357	36.934	2.363	6.484	1.00	0.02
ATOM	3250	N	ILE	A	358	36.160	0.241	6.429	1.00	0.00
ATOM	3252	CA	ILE	A	358	36.753	-0.120	7.716	1.00	0.01
ATOM	3253	CB	ILE	A	358	35.915	-1.222	8.354	1.00	1.15
ATOM	3254	CG2	ILE	A	358	36.415	-1.521	9.764	1.00	1.49
ATOM	3255	CG1	ILE	A	358	34.440	-0.854	8.382	1.00	1.60
ATOM	3256	CD1	ILE	A	358	33.617	-1.909	9.109	1.00	2.08

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ATOM	3257	C	ILE	A	358	38.158	-0.666	7.519	1.00	0.02
ATOM	3258	O	ILE	A	358	39.102	-0.216	8.178	1.00	0.02
ATOM	3259	N	ALA	A	359	38.280	-1.586	6.576	1.00	0.02
ATOM	3261	CA	ALA	A	359	39.550	-2.261	6.296	1.00	0.00
ATOM	3262	CB	ALA	A	359	39.821	-3.283	7.395	1.00	0.83
ATOM	3263	C	ALA	A	359	39.467	-2.976	4.953	1.00	0.02
ATOM	3264	O	ALA	A	359	39.356	-4.210	4.917	1.00	0.01
ATOM	3265	N	LYS	A	360	39.799	-2.242	3.903	1.00	0.00
ATOM	3267	CA	LYS	A	360	39.608	-2.681	2.507	1.00	0.00
ATOM	3268	CB	LYS	A	360	39.945	-1.487	1.618	1.00	1.13
ATOM	3269	CG	LYS	A	360	41.351	-0.963	1.906	1.00	1.56
ATOM	3270	CD	LYS	A	360	41.759	0.129	0.926	1.00	2.17
ATOM	3271	CE	LYS	A	360	40.773	1.289	0.948	1.00	3.04
ATOM	3272	NZ	LYS	A	360	41.170	2.337	-0.004	1.00	3.66
ATOM	3273	C	LYS	A	360	40.437	-3.877	2.012	1.00	0.02
ATOM	3274	O	LYS	A	360	40.140	-4.394	0.930	1.00	0.02
ATOM	3275	N	ARG	A	361	41.421	-4.340	2.765	1.00	0.02
ATOM	3277	CA	ARG	A	361	42.187	-5.507	2.324	1.00	0.00
ATOM	3278	CB	ARG	A	361	43.662	-5.131	2.299	1.00	1.38
ATOM	3279	CG	ARG	A	361	44.165	-4.694	3.668	1.00	1.86
ATOM	3280	CD	ARG	A	361	45.493	-3.965	3.534	1.00	2.43
ATOM	3281	NE	ARG	A	361	45.300	-2.722	2.770	1.00	3.31
ATOM	3282	CZ	ARG	A	361	46.256	-1.808	2.594	1.00	4.21
ATOM	3283	NH1	ARG	A	361	45.992	-0.690	1.914	1.00	5.21
ATOM	3284	NH2	ARG	A	361	47.469	-2.001	3.118	1.00	4.31
ATOM	3285	C	ARG	A	361	41.939	-6.728	3.211	1.00	0.02
ATOM	3286	O	ARG	A	361	42.483	-7.809	2.956	1.00	0.00
ATOM	3287	N	ASP	A	362	41.107	-6.562	4.227	1.00	0.02
ATOM	3289	CA	ASP	A	362	40.847	-7.655	5.171	1.00	0.01
ATOM	3290	CB	ASP	A	362	41.005	-7.113	6.592	1.00	0.80
ATOM	3291	CG	ASP	A	362	42.408	-6.547	6.824	1.00	0.66
ATOM	3292	OD1	ASP	A	362	43.357	-7.142	6.338	1.00	0.78
ATOM	3293	OD2	ASP	A	362	42.506	-5.501	7.457	1.00	1.43
ATOM	3294	C	ASP	A	362	39.432	-8.207	4.989	1.00	0.02
ATOM	3295	O	ASP	A	362	38.485	-7.445	4.769	1.00	0.02
ATOM	3296	N	SER	A	363	39.293	-9.522	5.072	1.00	0.01
ATOM	3298	CA	SER	A	363	37.955	-	5.029	1.00	0.02
							10.144			
ATOM	3299	CB	SER	A	363	38.077	-	4.580	1.00	0.34
							11.595			
ATOM	3300	OG	SER	A	363	38.580	-	3.250	1.00	0.54
							11.595			
ATOM	3301	C	SER	A	363	37.296	-	6.407	1.00	0.02
							10.070			
ATOM	3302	O	SER	A	363	37.486	-	7.268	1.00	0.00
							10.940			
ATOM	3303	N	LEU	A	364	36.566	-8.987	6.610	1.00	0.01
ATOM	3305	CA	LEU	A	364	36.018	-8.664	7.926	1.00	0.01
ATOM	3306	CB	LEU	A	364	36.083	-7.147	8.066	1.00	0.00
ATOM	3307	CG	LEU	A	364	35.857	-6.672	9.495	1.00	0.02
ATOM	3308	CD1	LEU	A	364	36.971	-7.164	10.406	1.00	0.01
ATOM	3309	CD2	LEU	A	364	35.790	-5.153	9.540	1.00	0.01
ATOM	3310	C	LEU	A	364	34.586	-9.173	8.085	1.00	0.00
ATOM	3311	O	LEU	A	364	33.715	-8.941	7.243	1.00	0.00
ATOM	3312	N	GLN	A	365	34.374	-9.874	9.186	1.00	0.01
ATOM	3314	CA	GLN	A	365	33.063	-	9.512	1.00	0.02
							10.445			
ATOM	3315	CB	GLN	A	365	33.195	-	9.376	1.00	0.93

ATOM	3316	CG	GLN	A	365	34.513	-11.960 12.447	9.973	1.00	0.96
ATOM	3317	CD	GLN	A	365	34.684	-13.954 14.728	9.795	1.00	1.26
ATOM	3318	OE1	GLN	A	365	33.725	-14.728	9.900	1.00	1.74
ATOM	3319	NE2	GLN	A	365	35.906	-14.343	9.476	1.00	1.77
ATOM	3322	C	GLN	A	365	32.612	-10.062	10.924	1.00	0.01
ATOM	3323	O	GLN	A	365	33.414	-10.108	11.873	1.00	0.02
ATOM	3324	N	VAL	A	366	31.372	-9.605	11.042	1.00	0.02
ATOM	3326	CA	VAL	A	366	30.808	-9.330	12.373	1.00	0.02
ATOM	3327	CB	VAL	A	366	29.611	-8.391	12.278	1.00	0.05
ATOM	3328	CG1	VAL	A	366	29.051	-8.088	13.665	1.00	0.07
ATOM	3329	CG2	VAL	A	366	29.998	-7.092	11.582	1.00	0.09
ATOM	3330	C	VAL	A	366	30.427	-10.653	13.030	1.00	0.01
ATOM	3331	O	VAL	A	366	29.388	-11.264	12.747	1.00	0.01
ATOM	3332	N	SER	A	367	31.218	-10.967	14.038	1.00	0.01
ATOM	3334	CA	SER	A	367	31.284	-12.311	14.608	1.00	0.01
ATOM	3335	CB	SER	A	367	32.695	-12.811	14.376	1.00	0.02
ATOM	3336	OG	SER	A	367	33.550	-11.755	14.784	1.00	0.02
ATOM	3337	C	SER	A	367	30.928	-12.353	16.091	1.00	0.00
ATOM	3338	O	SER	A	367	31.261	-13.332	16.778	1.00	0.01
ATOM	3339	N	LYS	A	368	30.497	-11.208	16.600	1.00	0.01
ATOM	3341	CA	LYS	A	368	29.771	-11.178	17.877	1.00	0.01
ATOM	3342	CB	LYS	A	368	30.719	-11.360	19.055	1.00	0.01
ATOM	3343	CG	LYS	A	368	29.919	-11.731	20.299	1.00	0.01
ATOM	3344	CD	LYS	A	368	29.108	-12.999	20.048	1.00	0.01
ATOM	3345	CE	LYS	A	368	28.171	-13.322	21.206	1.00	0.01
ATOM	3346	NZ	LYS	A	368	28.916	-13.569	22.447	1.00	0.02
ATOM	3347	C	LYS	A	368	28.985	-9.875	18.041	1.00	0.02
ATOM	3348	O	LYS	A	368	29.441	-8.950	18.725	1.00	0.01
ATOM	3349	N	ALA	A	369	27.850	-9.782	17.369	1.00	0.01
ATOM	3351	CA	ALA	A	369	26.963	-8.618	17.546	1.00	0.01
ATOM	3352	CB	ALA	A	369	26.238	-8.345	16.235	1.00	0.01
ATOM	3353	C	ALA	A	369	25.949	-8.864	18.664	1.00	0.01
ATOM	3354	O	ALA	A	369	25.158	-9.812	18.592	1.00	0.02
ATOM	3355	N	THR	A	370	25.939	-7.993	19.662	1.00	0.01
ATOM	3357	CA	THR	A	370	25.101	-8.219	20.852	1.00	0.01
ATOM	3358	CB	THR	A	370	25.947	-8.954	21.890	1.00	0.48

ATOM	3359	OG1	THR	A	370	26.430	-10.157	21.304	1.00	1.35
ATOM	3360	CG2	THR	A	370	25.143	-9.328	23.131	1.00	1.19
ATOM	3361	C	THR	A	370	24.538	-6.927	21.465	1.00	0.01
ATOM	3362	O	THR	A	370	25.275	-6.052	21.941	1.00	0.01
ATOM	3363	N	HIS	A	371	23.217	-6.866	21.486	1.00	0.01
ATOM	3365	CA	HIS	A	371	22.455	-5.767	22.092	1.00	0.01
ATOM	3366	CB	HIS	A	371	21.330	-5.439	21.104	1.00	0.01
ATOM	3367	CG	HIS	A	371	20.200	-4.573	21.621	1.00	0.01
ATOM	3368	ND1	HIS	A	371	20.198	-3.234	21.750	1.00	0.01
ATOM	3370	CE1	HIS	A	371	19.017	-2.838	22.261	1.00	0.01
ATOM	3371	NE2	HIS	A	371	18.262	-3.943	22.450	1.00	0.01
ATOM	3372	CD2	HIS	A	371	18.976	-5.020	22.056	1.00	0.01
ATOM	3373	C	HIS	A	371	21.887	-6.179	23.457	1.00	0.01
ATOM	3374	O	HIS	A	371	21.726	-7.377	23.718	1.00	0.01
ATOM	3375	N	LYS	A	372	21.692	-5.220	24.351	1.00	0.01
ATOM	3377	CA	LYS	A	372	20.961	-5.502	25.600	1.00	0.01
ATOM	3378	CB	LYS	A	372	21.890	-6.097	26.651	1.00	0.01
ATOM	3379	CG	LYS	A	372	21.111	-6.441	27.917	1.00	0.01
ATOM	3380	CD	LYS	A	372	22.006	-6.977	29.023	1.00	0.01
ATOM	3381	CE	LYS	A	372	21.187	-7.286	30.270	1.00	0.01
ATOM	3382	NZ	LYS	A	372	22.038	-7.707	31.393	1.00	0.00
ATOM	3383	C	LYS	A	372	20.295	-4.252	26.174	1.00	0.01
ATOM	3384	O	LYS	A	372	20.979	-3.322	26.625	1.00	0.01
ATOM	3385	N	ALA	A	373	18.972	-4.272	26.212	1.00	0.02
ATOM	3387	CA	ALA	A	373	18.209	-3.152	26.778	1.00	0.01
ATOM	3388	CB	ALA	A	373	17.019	-2.865	25.872	1.00	0.01
ATOM	3389	C	ALA	A	373	17.735	-3.444	28.206	1.00	0.01
ATOM	3390	O	ALA	A	373	17.267	-4.549	28.512	1.00	0.01
ATOM	3391	N	VAL	A	374	17.925	-2.470	29.083	1.00	0.01
ATOM	3393	CA	VAL	A	374	17.524	-2.612	30.496	1.00	0.01
ATOM	3394	CB	VAL	A	374	18.783	-2.646	31.364	1.00	0.01
ATOM	3395	CG1	VAL	A	374	18.454	-3.123	32.775	1.00	0.01
ATOM	3396	CG2	VAL	A	374	19.876	-3.526	30.769	1.00	0.01
ATOM	3397	C	VAL	A	374	16.649	-1.435	30.951	1.00	0.01
ATOM	3398	O	VAL	A	374	17.059	-0.273	30.841	1.00	0.01
ATOM	3399	N	LEU	A	375	15.489	-1.738	31.512	1.00	0.02
ATOM	3401	CA	LEU	A	375	14.565	-0.695	31.983	1.00	0.01
ATOM	3402	CB	LEU	A	375	13.288	-0.778	31.165	1.00	0.01
ATOM	3403	CG	LEU	A	375	12.297	0.324	31.521	1.00	0.01
ATOM	3404	CD1	LEU	A	375	12.882	1.700	31.229	1.00	0.01
ATOM	3405	CD2	LEU	A	375	10.991	0.130	30.767	1.00	0.00
ATOM	3406	C	LEU	A	375	14.170	-0.871	33.443	1.00	0.01
ATOM	3407	O	LEU	A	375	13.437	-1.802	33.796	1.00	0.02
ATOM	3408	N	ASP	A	376	14.540	0.096	34.262	1.00	0.02
ATOM	3410	CA	ASP	A	376	14.090	0.092	35.653	1.00	0.02
ATOM	3411	CB	ASP	A	376	15.157	0.722	36.539	1.00	0.48
ATOM	3412	CG	ASP	A	376	14.646	0.786	37.978	1.00	1.01
ATOM	3413	OD1	ASP	A	376	14.721	-0.232	38.650	1.00	1.53
ATOM	3414	OD2	ASP	A	376	14.109	1.826	38.344	1.00	1.55
ATOM	3415	C	ASP	A	376	12.779	0.859	35.806	1.00	0.01
ATOM	3416	O	ASP	A	376	12.756	2.099	35.767	1.00	0.02
ATOM	3417	N	VAL	A	377	11.702	0.116	36.010	1.00	0.01
ATOM	3419	CA	VAL	A	377	10.405	0.746	36.276	1.00	0.01
ATOM	3420	CB	VAL	A	377	9.297	-0.111	35.676	1.00	0.54
ATOM	3421	CG1	VAL	A	377	7.930	0.537	35.872	1.00	0.52
ATOM	3422	CG2	VAL	A	377	9.551	-0.371	34.197	1.00	0.68
ATOM	3423	C	VAL	A	377	10.184	0.903	37.779	1.00	0.02

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

ATOM	3424	O	VAL	A	377	9.720	-0.020	38.459	1.00	0.00
ATOM	3425	N	SER	A	378	10.590	2.055	38.282	1.00	0.01
ATOM	3427	CA	SER	A	378	10.411	2.405	39.699	1.00	0.02
ATOM	3428	CB	SER	A	378	11.661	3.126	40.188	1.00	0.91
ATOM	3429	OG	SER	A	378	11.816	4.305	39.406	1.00	1.28
ATOM	3430	C	SER	A	378	9.200	3.317	39.861	1.00	0.00
ATOM	3431	O	SER	A	378	8.473	3.549	38.890	1.00	0.01
ATOM	3432	N	GLU	A	379	8.933	3.762	41.081	1.00	0.02
ATOM	3434	CA	GLU	A	379	7.850	4.742	41.287	1.00	0.02
ATOM	3435	CB	GLU	A	379	7.299	4.673	42.710	1.00	0.02
ATOM	3436	CG	GLU	A	379	6.699	3.326	43.083	1.00	0.02
ATOM	3437	CD	GLU	A	379	7.621	2.653	44.083	1.00	0.02
ATOM	3438	OE1	GLU	A	379	8.796	3.005	44.070	1.00	0.02
ATOM	3439	OE2	GLU	A	379	7.165	1.780	44.802	1.00	0.02
ATOM	3440	C	GLU	A	379	8.405	6.144	41.093	1.00	0.00
ATOM	3441	O	GLU	A	379	7.702	7.072	40.671	1.00	0.02
ATOM	3442	N	GLU	A	380	9.660	6.274	41.489	1.00	0.01
ATOM	3444	CA	GLU	A	380	10.451	7.489	41.291	1.00	0.00
ATOM	3445	CB	GLU	A	380	10.535	8.262	42.607	1.00	1.77
ATOM	3446	CG	GLU	A	380	9.195	8.834	43.055	1.00	2.64
ATOM	3447	CD	GLU	A	380	9.342	9.500	44.420	1.00	3.00
ATOM	3448	OE1	GLU	A	380	9.953	8.886	45.286	1.00	3.53
ATOM	3449	OE2	GLU	A	380	8.737	10.548	44.608	1.00	3.27
ATOM	3450	C	GLU	A	380	11.858	7.081	40.876	1.00	0.02
ATOM	3451	O	GLU	A	380	12.452	6.198	41.508	1.00	0.02
ATOM	3452	N	GLY	A	381	12.322	7.613	39.759	1.00	0.02
ATOM	3454	CA	GLY	A	381	13.704	7.367	39.336	1.00	0.02
ATOM	3455	C	GLY	A	381	14.645	8.022	40.337	1.00	0.01
ATOM	3456	O	GLY	A	381	15.354	7.349	41.094	1.00	0.02
ATOM	3457	N	THR	A	382	14.639	9.342	40.330	1.00	0.01
ATOM	3459	CA	THR	A	382	15.374	10.092	41.346	1.00	0.01
ATOM	3460	CB	THR	A	382	15.537	11.538	40.880	1.00	0.02
ATOM	3461	OG1	THR	A	382	16.095	12.288	41.953	1.00	0.01
ATOM	3462	CG2	THR	A	382	14.199	12.173	40.517	1.00	0.02
ATOM	3463	C	THR	A	382	14.621	10.051	42.671	1.00	0.00
ATOM	3464	O	THR	A	382	13.390	9.952	42.703	1.00	0.02
ATOM	3465	N	GLU	A	383	15.377	10.089	43.756	1.00	0.01
ATOM	3467	CA	GLU	A	383	14.787	10.186	45.091	1.00	0.01
ATOM	3468	CB	GLU	A	383	15.725	9.519	46.089	1.00	0.02
ATOM	3469	CG	GLU	A	383	15.867	8.028	45.806	1.00	0.00
ATOM	3470	CD	GLU	A	383	16.883	7.415	46.763	1.00	0.01
ATOM	3471	OE1	GLU	A	383	18.064	7.506	46.455	1.00	0.02
ATOM	3472	OE2	GLU	A	383	16.468	6.881	47.781	1.00	0.01
ATOM	3473	C	GLU	A	383	14.521	11.633	45.523	1.00	0.01
ATOM	3474	O	GLU	A	383	14.041	11.842	46.642	1.00	0.01
ATOM	3475	N	ALA	A	384	14.842	12.614	44.689	1.00	0.01
ATOM	3477	CA	ALA	A	384	14.536	14.000	45.044	1.00	0.01
ATOM	3478	CB	ALA	A	384	15.301	14.930	44.110	1.00	0.01
ATOM	3479	C	ALA	A	384	13.039	14.246	44.909	1.00	0.01
ATOM	3480	O	ALA	A	384	12.393	13.719	43.996	1.00	0.02
ATOM	3481	N	THR	A	385	12.506	15.026	45.832	1.00	0.01
ATOM	3483	CA	THR	A	385	11.069	15.321	45.844	1.00	0.01
ATOM	3484	CB	THR	A	385	10.739	16.039	47.151	1.00	0.38
ATOM	3485	OG1	THR	A	385	11.064	15.161	48.221	1.00	1.48
ATOM	3486	CG2	THR	A	385	9.258	16.388	47.268	1.00	1.35
ATOM	3487	C	THR	A	385	10.675	16.184	44.648	1.00	0.02
ATOM	3488	O	THR	A	385	11.220	17.273	44.436	1.00	0.01
ATOM	3489	N	ALA	A	386	9.765	15.650	43.850	1.00	0.00

ATOM	3491	CA	ALA	A	386	9.233	16.371	42.891	1.00	0.02
ATOM	3492	CB	ALA	A	386	8.398	15.407	41.855	1.00	0.42
ATOM	3493	C	ALA	A	386	8.369	17.551	43.126	1.00	0.03
ATOM	3494	O	ALA	A	386	7.949	17.640	44.287	1.00	0.02
ATOM	3495	N	ALA	A	387	8.167	18.475	42.201	1.00	0.01
ATOM	3497	CA	ALA	A	387	7.315	19.643	42.456	1.00	0.01
ATOM	3498	CB	ALA	A	387	7.267	20.502	41.198	1.00	0.02
ATOM	3499	C	ALA	A	387	5.903	19.213	42.841	1.00	0.01
ATOM	3500	O	ALA	A	387	5.370	18.228	42.314	1.00	0.02
ATOM	3501	N	THR	A	388	5.314	19.953	43.764	1.00	0.02
ATOM	3503	CA	THR	A	388	3.986	19.603	44.282	1.00	0.01
ATOM	3504	CB	THR	A	388	3.830	20.215	45.670	1.00	0.52
ATOM	3505	OG1	THR	A	388	4.892	19.727	46.479	1.00	0.64
ATOM	3506	CG2	THR	A	388	2.511	19.810	46.324	1.00	0.69
ATOM	3507	C	THR	A	388	2.866	20.085	43.362	1.00	0.02
ATOM	3508	O	THR	A	388	2.391	21.223	43.457	1.00	0.01
ATOM	3509	N	THR	A	389	2.504	19.221	42.431	1.00	0.01
ATOM	3511	CA	THR	A	389	1.383	19.495	41.527	1.00	0.02
ATOM	3512	CB	THR	A	389	1.577	18.714	40.233	1.00	0.16
ATOM	3513	OG1	THR	A	389	1.515	17.323	40.528	1.00	0.18
ATOM	3514	CG2	THR	A	389	2.927	19.015	39.592	1.00	0.12
ATOM	3515	C	THR	A	389	0.072	19.085	42.186	1.00	0.02
ATOM	3516	O	THR	A	389	0.004	18.073	42.891	1.00	0.02
ATOM	3517	N	THR	A	390	-0.958	19.883	41.971	1.00	0.01
ATOM	3519	CA	THR	A	390	-2.260	19.577	42.572	1.00	0.02
ATOM	3520	CB	THR	A	390	-2.500	20.548	43.722	1.00	0.38
ATOM	3521	OG1	THR	A	390	-1.396	20.444	44.612	1.00	1.27
ATOM	3522	CG2	THR	A	390	-3.772	20.210	44.494	1.00	1.29
ATOM	3523	C	THR	A	390	-3.383	19.680	41.545	1.00	0.01
ATOM	3524	O	THR	A	390	-3.969	20.749	41.338	1.00	0.02
ATOM	3525	N	LYS	A	391	-3.640	18.572	40.874	1.00	0.02
ATOM	3527	CA	LYS	A	391	-4.725	18.537	39.890	1.00	0.01
ATOM	3528	CB	LYS	A	391	-4.297	17.698	38.695	1.00	0.84
ATOM	3529	CG	LYS	A	391	-3.093	18.351	38.027	1.00	1.32
ATOM	3530	CD	LYS	A	391	-2.706	17.653	36.732	1.00	2.13
ATOM	3531	CE	LYS	A	391	-1.480	18.312	36.110	1.00	2.60
ATOM	3532	NZ	LYS	A	391	-0.340	18.271	37.038	1.00	3.28
ATOM	3533	C	LYS	A	391	-6.011	18.011	40.516	1.00	0.02
ATOM	3534	O	LYS	A	391	-6.000	17.074	41.322	1.00	0.01
ATOM	3535	N	PHE	A	392	-7.107	18.653	40.155	1.00	0.01
ATOM	3537	CA	PHE	A	392	-8.408	18.332	40.749	1.00	0.01
ATOM	3538	CB	PHE	A	392	-9.331	19.528	40.552	1.00	0.12
ATOM	3539	CG	PHE	A	392	-8.787	20.807	41.183	1.00	0.14
ATOM	3540	CD1	PHE	A	392	-8.513	21.914	40.390	1.00	0.22
ATOM	3541	CE1	PHE	A	392	-8.010	23.074	40.966	1.00	0.31
ATOM	3542	CZ	PHE	A	392	-7.782	23.126	42.336	1.00	0.36
ATOM	3543	CE2	PHE	A	392	-8.058	22.020	43.128	1.00	0.33
ATOM	3544	CD2	PHE	A	392	-8.560	20.861	42.552	1.00	0.20
ATOM	3545	C	PHE	A	392	-9.025	17.075	40.146	1.00	0.02
ATOM	3546	O	PHE	A	392	-9.271	16.983	38.937	1.00	0.02
ATOM	3547	N	ILE	A	393	-9.234	16.102	41.016	1.00	0.02
ATOM	3549	CA	ILE	A	393	-9.840	14.829	40.625	1.00	0.02
ATOM	3550	CB	ILE	A	393	-9.109	13.720	41.379	1.00	0.02
ATOM	3551	CG2	ILE	A	393	-9.669	12.341	41.044	1.00	0.00
ATOM	3552	CG1	ILE	A	393	-7.618	13.771	41.066	1.00	0.02
ATOM	3553	CD1	ILE	A	393	-6.851	12.724	41.862	1.00	0.00
ATOM	3554	C	ILE	A	393	-	14.807	40.954	1.00	0.02
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ATOM	3555	O	ILE	A	393	- 11.736	15.082	42.089	1.00	0.02
ATOM	3556	N	VAL	A	394	- 12.137	14.553	39.937	1.00	0.02
ATOM	3558	CA	VAL	A	394	- 13.579	14.400	40.147	1.00	0.02
ATOM	3559	CB	VAL	A	394	- 14.274	14.489	38.787	1.00	1.05
ATOM	3560	CG1	VAL	A	394	- 15.768	14.192	38.854	1.00	1.37
ATOM	3561	CG2	VAL	A	394	- 14.052	15.872	38.188	1.00	1.35
ATOM	3562	C	VAL	A	394	- 13.848	13.075	40.863	1.00	0.02
ATOM	3563	O	VAL	A	394	- 13.339	12.021	40.472	1.00	0.00
ATOM	3564	N	ARG	A	395	- 14.678	13.150	41.893	1.00	0.02
ATOM	3566	CA	ARG	A	395	- 14.955	12.017	42.792	1.00	0.02
ATOM	3567	CB	ARG	A	395	- 15.414	12.644	44.108	1.00	1.17
ATOM	3568	CG	ARG	A	395	- 15.493	11.662	45.273	1.00	1.69
ATOM	3569	CD	ARG	A	395	- 16.026	12.350	46.524	1.00	2.28
ATOM	3570	NE	ARG	A	395	- 17.365	12.912	46.275	1.00	2.83
ATOM	3571	CZ	ARG	A	395	- 17.679	14.191	46.492	1.00	3.34
ATOM	3572	NH1	ARG	A	395	- 16.753	15.040	46.945	1.00	3.83
ATOM	3573	NH2	ARG	A	395	- 18.915	14.626	46.237	1.00	3.68
ATOM	3574	C	ARG	A	395	- 16.021	11.035	42.266	1.00	0.02
ATOM	3575	O	ARG	A	395	- 16.340	10.047	42.939	1.00	0.02
ATOM	3576	N	SER	A	396	- 16.547	11.286	41.077	1.00	0.01
ATOM	3578	CA	SER	A	396	- 17.573	10.408	40.497	1.00	0.01
ATOM	3579	CB	SER	A	396	- 18.008	10.956	39.140	1.00	0.02
ATOM	3580	OG	SER	A	396	- 16.889	10.942	38.261	1.00	0.00
ATOM	3581	C	SER	A	396	- 17.044	8.988	40.324	1.00	0.02
ATOM	3582	O	SER	A	396	- 15.959	8.777	39.774	1.00	0.01
ATOM	3583	N	LYS	A	397	- 17.903	8.025	40.616	1.00	0.01
ATOM	3585	CA	LYS	A	397	- 17.504	6.608	40.597	1.00	0.01
ATOM	3586	CB	LYS	A	397	- 18.483	5.845	41.476	1.00	0.53
ATOM	3587	CG	LYS	A	397	- 18.443	6.404	42.894	1.00	0.99
ATOM	3588	CD	LYS	A	397	-	5.717	43.811	1.00	1.27

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ATOM	3589	CE	LYS	A	397	- 19.381	6.301	45.218	1.00	1.17
ATOM	3590	NZ	LYS	A	397	- 19.656	7.748	45.199	1.00	1.92
ATOM	3591	C	LYS	A	397	- 17.456	5.995	39.195	1.00	0.02
ATOM	3592	O	LYS	A	397	- 17.020	4.854	39.020	1.00	0.02
ATOM	3593	N	ASP	A	398	- 17.852	6.773	38.200	1.00	0.53
ATOM	3595	CA	ASP	A	398	- 17.694	6.369	36.803	1.00	1.04
ATOM	3596	CB	ASP	A	398	- 18.868	6.954	36.019	1.00	1.51
ATOM	3597	CG	ASP	A	398	- 18.826	6.533	34.554	1.00	1.90
ATOM	3598	OD1	ASP	A	398	- 18.447	7.362	33.738	1.00	2.32
ATOM	3599	OD2	ASP	A	398	- 19.301	5.443	34.265	1.00	2.30
ATOM	3600	C	ASP	A	398	- 16.367	6.900	36.246	1.00	1.10
ATOM	3601	O	ASP	A	398	- 15.881	6.413	35.218	1.00	1.33
ATOM	3602	N	GLY	A	399	- 15.729	7.791	36.992	1.00	0.35
ATOM	3604	CA	GLY	A	399	- 14.472	8.400	36.545	1.00	0.43
ATOM	3605	C	GLY	A	399	- 13.299	7.483	36.865	1.00	0.38
ATOM	3606	O	GLY	A	399	- 12.968	6.607	36.055	1.00	0.43
ATOM	3607	N	PRO	A	400	- 12.657	7.729	38.000	1.00	0.02
ATOM	3608	CA	PRO	A	400	- 11.593	6.852	38.509	1.00	0.00
ATOM	3609	CB	PRO	A	400	- 11.054	7.548	39.717	1.00	0.02
ATOM	3610	CG	PRO	A	400	- 11.911	8.768	40.023	1.00	0.03
ATOM	3611	CD	PRO	A	400	- 12.932	8.851	38.902	1.00	0.03
ATOM	3612	C	PRO	A	400	- 12.127	5.475	38.879	1.00	0.01
ATOM	3613	O	PRO	A	400	- 12.521	5.237	40.026	1.00	0.00
ATOM	3614	N	SER	A	401	- 12.080	4.568	37.919	1.00	0.02
ATOM	3616	CA	SER	A	401	- 12.717	3.268	38.096	1.00	0.01
ATOM	3617	CB	SER	A	401	- 13.842	3.213	37.071	1.00	2.33
ATOM	3618	OG	SER	A	401	- 14.658	4.361	37.292	1.00	3.03
ATOM	3619	C	SER	A	401	- 11.770	2.090	37.914	1.00	0.02
ATOM	3620	O	SER	A	401	- 10.675	2.214	37.356	1.00	0.01

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ATOM	3621	N	TYR	A	402	-12.326	0.933	38.231	1.00	1.42
ATOM	3623	CA	TYR	A	402	-11.639	-0.367	38.268	1.00	1.57
ATOM	3624	CB	TYR	A	402	-12.601	-1.427	38.863	1.00	1.62
ATOM	3625	CG	TYR	A	402	-14.106	-1.543	38.474	1.00	2.37
ATOM	3626	CD1	TYR	A	402	-14.922	-2.337	39.277	1.00	3.23
ATOM	3627	CE1	TYR	A	402	-16.272	-2.486	38.985	1.00	4.33
ATOM	3628	CZ	TYR	A	402	-16.815	-1.847	37.882	1.00	4.54
ATOM	3629	OH	TYR	A	402	-18.149	-2.013	37.577	1.00	5.70
ATOM	3630	CE2	TYR	A	402	-16.013	-1.065	37.065	1.00	3.73
ATOM	3631	CD2	TYR	A	402	-14.663	-0.922	37.358	1.00	2.65
ATOM	3632	C	TYR	A	402	-10.998	-0.872	36.963	1.00	1.61
ATOM	3633	O	TYR	A	402	-9.774	-0.749	36.800	1.00	2.21
ATOM	3634	N	PHE	A	403	-11.818	-1.232	35.982	1.00	1.32
ATOM	3636	CA	PHE	A	403	-11.365	-2.043	34.842	1.00	1.54
ATOM	3637	CB	PHE	A	403	-12.592	-2.504	34.059	1.00	1.10
ATOM	3638	CG	PHE	A	403	-13.556	-3.460	34.757	1.00	1.20
ATOM	3639	CD1	PHE	A	403	-14.908	-3.425	34.434	1.00	1.54
ATOM	3640	CE1	PHE	A	403	-15.794	-4.301	35.048	1.00	2.04
ATOM	3641	CZ	PHE	A	403	-15.324	-5.218	35.978	1.00	2.06
ATOM	3642	CE2	PHE	A	403	-13.972	-5.270	36.291	1.00	1.68
ATOM	3643	CD2	PHE	A	403	-13.086	-4.394	35.674	1.00	1.35
ATOM	3644	C	PHE	A	403	-10.458	-1.342	33.840	1.00	1.40
ATOM	3645	O	PHE	A	403	-9.673	-2.022	33.171	1.00	2.11
ATOM	3646	N	THR	A	404	-10.380	-0.022	33.889	1.00	1.47
ATOM	3648	CA	THR	A	404	-9.645	0.688	32.838	1.00	1.83
ATOM	3649	CB	THR	A	404	-10.219	2.093	32.686	1.00	1.26
ATOM	3650	OG1	THR	A	404	-9.975	2.812	33.891	1.00	1.46
ATOM	3651	CG2	THR	A	404	-11.724	2.058	32.432	1.00	2.05
ATOM	3652	C	THR	A	404	-8.152	0.792	33.122	1.00	1.32
ATOM	3653	O	THR	A	404	-7.371	1.044	32.200	1.00	1.45
ATOM	3654	N	VAL	A	405	-7.747	0.528	34.352	1.00	0.00
ATOM	3656	CA	VAL	A	405	-6.363	0.806	34.721	1.00	0.02
ATOM	3657	CB	VAL	A	405	-6.383	2.110	35.488	1.00	0.02
ATOM	3658	CG1	VAL	A	405	-6.272	3.287	34.531	1.00	0.02
ATOM	3659	CG2	VAL	A	405	-7.660	2.182	36.311	1.00	0.02

ATOM	3660	C	VAL	A	405	-5.687	-0.287	33.537	1.00	0.01
ATOM	3661	O	VAL	A	405	-4.657	-0.029	36.177	1.00	0.00
ATOM	3662	N	SER	A	406	-6.268	-1.473	35.546	1.00	0.02
ATOM	3664	CA	SER	A	406	-5.611	-2.602	36.206	1.00	0.02
ATOM	3665	CB	SER	A	406	-6.655	-3.585	36.743	1.00	2.03
ATOM	3666	OG	SER	A	406	-7.513	-3.997	35.685	1.00	2.68
ATOM	3667	C	SER	A	406	-4.638	-3.287	35.242	1.00	0.02
ATOM	3668	O	SER	A	406	-5.017	-4.174	34.471	1.00	0.01
ATOM	3669	N	PHE	A	407	-3.364	-2.958	35.384	1.00	0.02
ATOM	3671	CA	PHE	A	407	-2.322	-3.488	34.494	1.00	0.02
ATOM	3672	CB	PHE	A	407	-1.268	-2.413	34.235	1.00	0.01
ATOM	3673	CG	PHE	A	407	-1.739	-1.291	33.311	1.00	0.02
ATOM	3674	CD1	PHE	A	407	-2.349	-0.155	33.828	1.00	0.02
ATOM	3675	CE1	PHE	A	407	-2.782	0.851	32.974	1.00	0.02
ATOM	3676	CZ	PHE	A	407	-2.598	0.725	31.603	1.00	0.02
ATOM	3677	CE2	PHE	A	407	-1.977	-0.405	31.087	1.00	0.00
ATOM	3678	CD2	PHE	A	407	-1.548	-1.412	31.941	1.00	0.01
ATOM	3679	C	PHE	A	407	-1.682	-4.760	35.045	1.00	0.02
ATOM	3680	O	PHE	A	407	-0.462	-4.949	34.979	1.00	0.02
ATOM	3681	N	ASN	A	408	-2.517	-5.611	35.619	1.00	0.02
ATOM	3683	CA	ASN	A	408	-2.054	-6.901	36.120	1.00	0.02
ATOM	3684	CB	ASN	A	408	-2.829	-7.317	37.375	1.00	0.02
ATOM	3685	CG	ASN	A	408	-4.294	-7.673	37.106	1.00	0.01
ATOM	3686	OD1	ASN	A	408	-5.030	-6.943	36.432	1.00	0.01
ATOM	3687	ND2	ASN	A	408	-4.709	-8.787	37.681	1.00	0.02
ATOM	3690	C	ASN	A	408	-2.170	-7.944	35.014	1.00	0.02
ATOM	3691	O	ASN	A	408	-1.639	-9.047	35.153	1.00	0.00
ATOM	3692	N	ARG	A	409	-2.855	-7.619	33.932	1.00	0.00
ATOM	3694	CA	ARG	A	409	-2.766	-8.471	32.743	1.00	0.01
ATOM	3695	CB	ARG	A	409	-4.057	-8.395	31.946	1.00	1.08
ATOM	3696	CG	ARG	A	409	-5.240	-8.876	32.774	1.00	1.16
ATOM	3697	CD	ARG	A	409	-6.500	-8.955	31.924	1.00	1.61
ATOM	3698	NE	ARG	A	409	-6.792	-7.655	31.304	1.00	1.42
ATOM	3699	CZ	ARG	A	409	-8.026	-7.155	31.217	1.00	1.93
ATOM	3700	NH1	ARG	A	409	-9.060	-7.845	31.703	1.00	2.76
ATOM	3701	NH2	ARG	A	409	-8.225	-5.967	30.641	1.00	2.23
ATOM	3702	C	ARG	A	409	-1.585	-8.014	31.893	1.00	0.00
ATOM	3703	O	ARG	A	409	-1.125	-6.876	32.038	1.00	0.01
ATOM	3704	N	THR	A	410	-1.078	-8.921	31.074	1.00	0.01
ATOM	3706	CA	THR	A	410	0.062	-8.630	30.187	1.00	0.01
ATOM	3707	CB	THR	A	410	0.301	-9.867	29.326	1.00	0.83
ATOM	3708	OG1	THR	A	410	0.808	-	30.181	1.00	1.17
							10.886			
ATOM	3709	CG2	THR	A	410	1.328	-9.629	28.222	1.00	1.37
ATOM	3710	C	THR	A	410	-0.176	-7.399	29.309	1.00	0.01
ATOM	3711	O	THR	A	410	-1.183	-7.305	28.596	1.00	0.01
ATOM	3712	N	PHE	A	411	0.744	-6.451	29.403	1.00	0.01
ATOM	3714	CA	PHE	A	411	0.617	-5.191	28.656	1.00	0.01
ATOM	3715	CB	PHE	A	411	0.284	-4.049	29.619	1.00	0.01
ATOM	3716	CG	PHE	A	411	1.295	-3.780	30.733	1.00	0.01
ATOM	3717	CD1	PHE	A	411	2.346	-2.897	30.519	1.00	0.01
ATOM	3718	CE1	PHE	A	411	3.263	-2.650	31.531	1.00	0.00
ATOM	3719	CZ	PHE	A	411	3.126	-3.277	32.761	1.00	0.01
ATOM	3720	CE2	PHE	A	411	2.068	-4.147	32.981	1.00	0.01
ATOM	3721	CD2	PHE	A	411	1.150	-4.394	31.970	1.00	0.00
ATOM	3722	C	PHE	A	411	1.860	-4.851	27.829	1.00	0.00
ATOM	3723	O	PHE	A	411	2.999	-5.206	28.160	1.00	0.02
ATOM	3724	N	LEU	A	412	1.605	-4.136	26.747	1.00	0.00

ATOM	3726	CA	LEU	A	412	2.650	-3.710	25.310	1.00	0.01
ATOM	3727	CB	LEU	A	412	1.984	-3.656	24.432	1.00	0.51
ATOM	3728	CG	LEU	A	412	2.939	-3.528	23.245	1.00	0.86
ATOM	3729	CD1	LEU	A	412	2.345	-4.205	22.018	1.00	1.15
ATOM	3730	CD2	LEU	A	412	3.308	-2.081	22.925	1.00	0.92
ATOM	3731	C	LEU	A	412	3.213	-2.348	26.222	1.00	0.01
ATOM	3732	O	LEU	A	412	2.461	-1.415	26.530	1.00	0.01
ATOM	3733	N	MET	A	413	4.531	-2.250	26.239	1.00	0.01
ATOM	3735	CA	MET	A	413	5.195	-0.983	26.574	1.00	0.01
ATOM	3736	CB	MET	A	413	6.310	-1.226	27.579	1.00	1.42
ATOM	3737	CG	MET	A	413	5.775	-1.694	28.923	1.00	0.91
ATOM	3738	SD	MET	A	413	7.002	-1.688	30.246	1.00	1.58
ATOM	3739	CE	MET	A	413	7.448	0.062	30.175	1.00	1.14
ATOM	3740	C	MET	A	413	5.794	-0.307	25.345	1.00	0.01
ATOM	3741	O	MET	A	413	6.388	-0.960	24.477	1.00	0.01
ATOM	3742	N	MET	A	414	5.672	1.008	25.312	1.00	0.00
ATOM	3744	CA	MET	A	414	6.255	1.792	24.217	1.00	0.01
ATOM	3745	CB	MET	A	414	5.197	1.954	23.136	1.00	0.42
ATOM	3746	CG	MET	A	414	5.704	2.789	21.970	1.00	1.17
ATOM	3747	SD	MET	A	414	4.608	2.810	20.538	1.00	1.20
ATOM	3748	CE	MET	A	414	3.065	3.254	21.366	1.00	1.92
ATOM	3749	C	MET	A	414	6.756	3.160	24.681	1.00	0.01
ATOM	3750	O	MET	A	414	5.983	4.113	24.830	1.00	0.00
ATOM	3751	N	ILE	A	415	8.056	3.254	24.884	1.00	0.01
ATOM	3753	CA	ILE	A	415	8.657	4.526	25.303	1.00	0.01
ATOM	3754	CB	ILE	A	415	9.842	4.231	26.216	1.00	0.24
ATOM	3755	CG2	ILE	A	415	10.545	5.519	26.637	1.00	0.37
ATOM	3756	CG1	ILE	A	415	9.380	3.452	27.440	1.00	0.21
ATOM	3757	CD1	ILE	A	415	10.537	3.177	28.391	1.00	0.15
ATOM	3758	C	ILE	A	415	9.107	5.320	24.080	1.00	0.01
ATOM	3759	O	ILE	A	415	10.024	4.907	23.359	1.00	0.01
ATOM	3760	N	THR	A	416	8.448	6.441	23.843	1.00	0.01
ATOM	3762	CA	THR	A	416	8.748	7.254	22.658	1.00	0.01
ATOM	3763	CB	THR	A	416	7.446	7.408	21.881	1.00	0.52
ATOM	3764	OG1	THR	A	416	6.945	6.101	21.629	1.00	1.01
ATOM	3765	CG2	THR	A	416	7.639	8.117	20.543	1.00	1.12
ATOM	3766	C	THR	A	416	9.325	8.625	23.019	1.00	0.01
ATOM	3767	O	THR	A	416	8.744	9.378	23.811	1.00	0.01
ATOM	3768	N	ASN	A	417	10.471	8.931	22.433	1.00	0.01
ATOM	3770	CA	ASN	A	417	11.125	10.229	22.628	1.00	0.00
ATOM	3771	CB	ASN	A	417	12.543	10.132	22.075	1.00	0.31
ATOM	3772	CG	ASN	A	417	13.254	11.475	22.170	1.00	0.35
ATOM	3773	OD1	ASN	A	417	13.106	12.332	21.287	1.00	0.53
ATOM	3774	ND2	ASN	A	417	13.993	11.651	23.247	1.00	0.80
ATOM	3777	C	ASN	A	417	10.368	11.324	21.886	1.00	0.01
ATOM	3778	O	ASN	A	417	10.458	11.428	20.654	1.00	0.01
ATOM	3779	N	LYS	A	418	9.838	12.264	22.652	1.00	0.01
ATOM	3781	CA	LYS	A	418	8.989	13.311	22.075	1.00	0.01
ATOM	3782	CB	LYS	A	418	7.784	13.572	22.980	1.00	0.76
ATOM	3783	CG	LYS	A	418	8.047	14.546	24.124	1.00	1.20
ATOM	3784	CD	LYS	A	418	6.753	14.809	24.889	1.00	1.77
ATOM	3785	CE	LYS	A	418	6.773	16.139	25.636	1.00	2.20
ATOM	3786	NZ	LYS	A	418	7.850	16.191	26.631	1.00	2.37
ATOM	3787	C	LYS	A	418	9.760	14.602	21.778	1.00	0.01
ATOM	3788	O	LYS	A	418	9.154	15.632	21.459	1.00	0.02
ATOM	3789	N	ALA	A	419	11.081	14.546	21.869	1.00	0.01
ATOM	3791	CA	ALA	A	419	11.903	15.688	21.458	1.00	0.00
ATOM	3792	CB	ALA	A	419	13.230	15.650	22.207	1.00	0.15

ATOM	3793	C	ALA	A	419	12.154	15.589	19.555	1.00	0.00
ATOM	3794	O	ALA	A	419	12.447	16.585	19.283	1.00	0.01
ATOM	3795	N	THR	A	420	12.051	14.367	19.461	1.00	0.01
ATOM	3797	CA	THR	A	420	11.991	14.108	18.023	1.00	0.01
ATOM	3798	CB	THR	A	420	13.262	13.400	17.537	1.00	0.00
ATOM	3799	OG1	THR	A	420	13.774	12.554	18.563	1.00	0.01
ATOM	3800	CG2	THR	A	420	14.365	14.406	17.226	1.00	0.01
ATOM	3801	C	THR	A	420	10.714	13.325	17.713	1.00	0.01
ATOM	3802	O	THR	A	420	9.651	13.924	17.516	1.00	0.01
ATOM	3803	N	ASP	A	421	10.836	12.009	17.632	1.00	0.01
ATOM	3805	CA	ASP	A	421	9.695	11.108	17.393	1.00	0.01
ATOM	3806	CB	ASP	A	421	9.064	11.381	16.023	1.00	2.55
ATOM	3807	CG	ASP	A	421	10.108	11.518	14.905	1.00	2.84
ATOM	3808	OD1	ASP	A	421	11.024	10.706	14.858	1.00	3.45
ATOM	3809	OD2	ASP	A	421	10.035	12.509	14.201	1.00	2.99
ATOM	3810	C	ASP	A	421	10.143	9.649	17.489	1.00	0.01
ATOM	3811	O	ASP	A	421	9.368	8.722	17.223	1.00	0.01
ATOM	3812	N	GLY	A	422	11.387	9.459	17.893	1.00	0.01
ATOM	3814	CA	GLY	A	422	11.985	8.120	17.874	1.00	0.01
ATOM	3815	C	GLY	A	422	11.553	7.251	19.047	1.00	0.00
ATOM	3816	O	GLY	A	422	11.748	7.617	20.212	1.00	0.00
ATOM	3817	N	ILE	A	423	10.880	6.158	18.733	1.00	0.01
ATOM	3819	CA	ILE	A	423	10.570	5.162	19.763	1.00	0.00
ATOM	3820	CB	ILE	A	423	9.661	4.089	19.179	1.00	0.37
ATOM	3821	CG2	ILE	A	423	9.305	3.046	20.234	1.00	0.32
ATOM	3822	CG1	ILE	A	423	8.393	4.706	18.609	1.00	0.51
ATOM	3823	CD1	ILE	A	423	7.475	3.623	18.059	1.00	0.70
ATOM	3824	C	ILE	A	423	11.871	4.534	20.242	1.00	0.01
ATOM	3825	O	ILE	A	423	12.566	3.841	19.486	1.00	0.01
ATOM	3826	N	LEU	A	424	12.153	4.741	21.515	1.00	0.01
ATOM	3828	CA	LEU	A	424	13.420	4.322	22.094	1.00	0.01
ATOM	3829	CB	LEU	A	424	13.697	5.172	23.330	1.00	0.01
ATOM	3830	CG	LEU	A	424	13.710	6.667	23.041	1.00	0.01
ATOM	3831	CD1	LEU	A	424	13.732	7.462	24.342	1.00	0.01
ATOM	3832	CD2	LEU	A	424	14.884	7.057	22.149	1.00	0.01
ATOM	3833	C	LEU	A	424	13.331	2.880	22.544	1.00	0.01
ATOM	3834	O	LEU	A	424	14.291	2.125	22.369	1.00	0.01
ATOM	3835	N	PHE	A	425	12.153	2.486	23.003	1.00	0.01
ATOM	3837	CA	PHE	A	425	11.976	1.137	23.557	1.00	0.01
ATOM	3838	CB	PHE	A	425	12.132	1.207	25.071	1.00	0.01
ATOM	3839	CG	PHE	A	425	13.530	1.519	25.595	1.00	0.01
ATOM	3840	CD1	PHE	A	425	14.590	0.672	25.298	1.00	0.01
ATOM	3841	CE1	PHE	A	425	15.858	0.949	25.792	1.00	0.0

ATOM	3859	C	GLY	A	427	7.051	-4.798	24.446	1.00	0.00
ATOM	3860	O	GLY	A	427	5.997	-4.354	24.873	1.00	0.01
ATOM	3861	N	LYS	A	428	7.120	-5.898	26.072	1.00	0.00
ATOM	3863	CA	LYS	A	428	5.944	-6.689	26.445	1.00	0.01
ATOM	3864	CB	LYS	A	428	5.789	-7.862	25.484	1.00	0.01
ATOM	3865	CG	LYS	A	428	4.595	-8.725	25.884	1.00	0.01
ATOM	3866	CD	LYS	A	428	4.667	-	25.270	1.00	0.00
							10.117			
ATOM	3867	CE	LYS	A	428	4.692	-	23.750	1.00	0.00
							10.060			
ATOM	3868	NZ	LYS	A	428	4.758	-	23.186	1.00	0.01
							11.416			
ATOM	3869	C	LYS	A	428	6.127	-7.261	27.844	1.00	0.01
ATOM	3870	O	LYS	A	428	6.958	-8.157	28.051	1.00	0.01
ATOM	3871	N	VAL	A	429	5.333	-6.782	28.784	1.00	0.00
ATOM	3873	CA	VAL	A	429	5.387	-7.325	30.142	1.00	0.01
ATOM	3874	CB	VAL	A	429	5.105	-6.215	31.144	1.00	0.01
ATOM	3875	CG1	VAL	A	429	5.108	-6.750	32.572	1.00	0.00
ATOM	3876	CG2	VAL	A	429	6.132	-5.101	30.998	1.00	0.01
ATOM	3877	C	VAL	A	429	4.368	-8.447	30.294	1.00	0.00
ATOM	3878	O	VAL	A	429	3.173	-8.211	30.519	1.00	0.01
ATOM	3879	N	GLU	A	430	4.857	-9.666	30.153	1.00	0.02
ATOM	3881	CA	GLU	A	430	4.000	-	30.270	1.00	0.01
							10.843			
ATOM	3882	CB	GLU	A	430	4.477	-	29.261	1.00	0.30
							11.877			
ATOM	3883	CG	GLU	A	430	3.550	-	29.206	1.00	0.57
							13.085			
ATOM	3884	CD	GLU	A	430	4.321	-	28.598	1.00	0.25
							14.244			
ATOM	3885	OE1	GLU	A	430	3.692	-	28.209	1.00	0.58
							15.219			
ATOM	3886	OE2	GLU	A	430	5.534	-	28.754	1.00	0.26
							14.216			
ATOM	3887	C	GLU	A	430	4.096	-	31.675	1.00	0.02
							11.422			
ATOM	3888	O	GLU	A	430	3.177	-	32.153	1.00	0.01
							12.097			
ATOM	3889	N	ASN	A	431	5.220	-	32.313	1.00	0.00
							11.149			
ATOM	3891	CA	ASN	A	431	5.443	-	33.713	1.00	0.00
							11.521			
ATOM	3892	CB	ASN	A	431	5.740	-	33.801	1.00	0.00
							13.018			
ATOM	3893	CG	ASN	A	431	5.920	-	35.253	1.00	0.01
							13.475			
ATOM	3894	OD1	ASN	A	431	6.693	-	36.026	1.00	0.02
							12.891			
ATOM	3895	ND2	ASN	A	431	5.257	-	35.584	1.00	0.02
							14.566			
ATOM	3898	C	ASN	A	431	6.632	-	34.246	1.00	0.02
							10.736			
ATOM	3899	O	ASN	A	431	7.777	-	34.119	1.00	0.01
							11.192			
ATOM	3900	N	PRO	A	432	6.349	-9.732	35.060	1.00	0.00
ATOM	3901	CA	PRO	A	432	7.387	-8.783	35.483	1.00	0.02
ATOM	3902	CB	PRO	A	432	6.637	-7.649	36.110	1.00	0.02
ATOM	3903	CG	PRO	A	432	5.164	-8.012	36.211	1.00	0.01

ATOM	3904	CD	PRO	A	432	5.016	-9.365	36.337	1.00	0.02
ATOM	3905	C	PRO	A	432	8.408	-9.346	36.479	1.00	0.01
ATOM	3906	O	PRO	A	432	9.515	-8.805	36.553	1.00	0.00
ATOM	3907	N	THR	A	433	8.145	-10.500	37.076	1.00	0.02
ATOM	3909	CA	THR	A	433	9.086	-11.048	38.054	1.00	0.01
ATOM	3910	CB	THR	A	433	8.340	-11.865	39.104	1.00	0.02
ATOM	3911	OG1	THR	A	433	7.900	-13.083	38.520	1.00	0.01
ATOM	3912	CG2	THR	A	433	7.136	-11.114	39.660	1.00	0.01
ATOM	3913	C	THR	A	433	10.127	-11.927	37.369	1.00	0.02
ATOM	3914	O	THR	A	433	11.161	-12.247	37.969	1.00	0.02
ATOM	3915	N	LYS	A	434	9.910	-12.226	36.098	1.00	0.01
ATOM	3917	CA	LYS	A	434	10.908	-12.974	35.324	1.00	0.02
ATOM	3918	CB	LYS	A	434	10.202	-13.816	34.268	1.00	2.22
ATOM	3919	CG	LYS	A	434	9.202	-14.782	34.891	1.00	2.65
ATOM	3920	CD	LYS	A	434	9.867	-15.756	35.857	1.00	2.62
ATOM	3921	CE	LYS	A	434	8.831	-16.644	36.534	1.00	3.30
ATOM	3922	NZ	LYS	A	434	9.470	-17.570	37.481	1.00	3.61
ATOM	3923	C	LYS	A	434	11.891	-12.016	34.651	1.00	0.02
ATOM	3924	O	LYS	A	434	11.859	-11.817	33.430	1.00	0.00
ATOM	3925	N	SER	A	435	12.761	-11.438	35.460	1.00	0.02
ATOM	3927	CA	SER	A	435	13.747	-10.479	34.960	1.00	0.02
ATOM	3928	CB	SER	A	435	13.389	-9.101	35.503	1.00	1.31
ATOM	3929	OG	SER	A	435	12.076	-8.780	35.062	1.00	1.94
ATOM	3930	C	SER	A	435	15.152	-10.861	35.411	1.00	0.02
ATOM	3931	O	SER	A	435	15.582	-10.351	36.435	1.00	0.01
ATOM	3932	OXT	SER	A	435	15.790	-11.618	34.691	1.00	0.01